

A List of the Cryptogams and Gymnospermous Plant Specimens in the British Museum (Natural History) gathered by Robert Brown in Australia 1801-5

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A list is here published for the first time of the cryptogams and gymnosperms gathered by Robert Brown in Australia and now preserved in the herbarium of the British Museum (Natural History), London. Brief remarks on Brown's Australian visit and collecting during 1801-5 are given. Correlation with the register of the collection prepared by J. J. Bennett is indicated.

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‘ . . . That full account of the Botanical discoveries made during Flinders's expedition, which the public had a right to expect, has never appeared . . . ’

J. Lindley, 1844

INTRODUCTION

The work of Robert Brown during and after Flinders' expedition to Australia in 1801-5 is recognized as a significant contribution to Australian natural history in general and Australian botany in particular, but scientific records of the expedition are fragmentary. Flinders' (1814) account of the voyage of the *Investigator* concentrates on geographical, navigational and sailing aspects and is useful for the chronology of the expedition up to his departure in 1803 and subsequent imprisonment at Mauritius. But for botanical details we must rely on Brown. His *Prodromus* of 1810 was intended to be the main account of the botany, but only one volume of the two proposed was produced, and only a few copies were sold. In due course, this important work was withdrawn. Brown also contributed a modest botanical appendix to the Flinders volumes (1814: 2, 533-613).

After the death of the expedition's commander, Matthew Flinders [1774-1814], British interest in the voyage appears to have declined, and it was not until 1904 that Britten published an account of the plants collected by Brown in Madeira on the outward voyage. More recently Rourke (1974) has produced an account of Brown's activities at the Cape of Good Hope, but there appears to be no list of South African specimens collected by Brown in existence. Brown's Timor plants are also little known, being only briefly mentioned by Forbes (1885). In Australia Brown prepared lists of plants seen or collected, or both, at some of the anchorages. Where these lists are still extant they remain in manuscript, and as Lindley (1844) pointed out, no published list of Brown's Australian plant specimens was available forty years after Brown returned. It

was not until the 1870s that a manuscript list of Brown's specimens was prepared. This is the catalogue referred to below as the 'Bennett Register'.

Recent Australian interest in the voyage began with the account by Burbidge (1956) of Brown's nomenclatural system (based on Flinders' chart annotations) for the Australian collecting localities. A landmark in studies of Brown's Australian botanical work was reached a few years later when a facsimile edition of the *Prodromus* (Brown, 1810) was published with an introduction by Stearn (1960a). There has been renewed interest in the natural history aspects of the voyage in the United Kingdom recently with the publication of a paper on the expedition by Edwards (1976) and the publication of the diary of Peter Good [d. 1803] also by Edwards (1981). Some of the paintings by the botanical artist Ferdinand Lukas Bauer [1760-1826] are reproduced by Stearn (1960b), Stearn and Blunt (1976) and Norst (in press). Vallance and Moore (1982) have given an account of the geological aspects of the voyage and Mabberley's (1985) work on Brown has provided a much-needed biography. Clements (1983) has described the orchids collected by Brown which are in the Lindley Herbarium and is to give an account of those in the British Museum (Natural History) Herbarium. However, there are no published lists of all the 3400 plants collected by Brown in Australia.

Further work, which will be published in the near future, includes the edited transcription of Brown's Diary of the voyage (Vallance *et al.*, in preparation). An important outcome of the Diary publication project is the realization that considerably more specimens were collected by Brown than are mentioned in either the *Prodromus* (Brown, 1810) or the Diary accounts. In his Diary Brown uses a variety of plant names. These include names already published by, for example, Carl Linnaeus [1707-1778], William Aiton [1731-1793] and others. But he also used 'nicknames' for species he did not immediately recognize. These are sometimes manuscript names attributable to D. C. Solander [1736-1786]. Their use is hinted at in a letter (British Library Add. MS 32439, ff61-4 and *Historical Records of N.S.W.* 4: 776-9) written by Brown to Sir Joseph Banks [1743-1820] from Sydney on 30 May 1802 which contains the following passage: '. . . The list . . . is partly compos'd of nicknames given at the moment the plants were collected, and not allow'd since. Some of them, I am afraid, may mislead, and the greater part I am aware are rather barbarous, especially where I have terminated specific names in oides, which I have done when uncertain whether the plant was distinct from a species already known, . . .'

'Oides' names are mentioned in Brown's Diary text and as a result of work connected with editing the Diary for publication, the surviving plant specimens gathered by Brown have been located in the BM (NH) Herbarium in order to check if these 'nicknames' were mentioned on the original labels. Fortunately most of them are. The locating of Brown's plants led to the preparation of an index of over 3000 cards (Groves and Moore, 1986), and the cryptogams and gymnospermous representatives located in this way form the basis of this account.

ROBERT BROWN'S PLANT COLLECTION

A letter from Sir Joseph Banks to Sir John Barrow [1764-1848], written on 9th October 1805 (B.L. Add. MS 32439, f185), reveals that twelve boxes of dried plants and eleven boxes of Bauer's natural history drawings were landed at Liverpool from the *Investigator*. There were, in all, 38 cases of natural history specimens (cf. Edwards, 1976). Banks indicates in a letter of 3rd January 1807 (B.L. Add. MS 32439, ff237-245) that about 3600 specimens were in the boxes of plants. Edwards (1976), citing Banks, stated that there were about 700 plant specimens from the south coast of Australia, 500 from the east coast, 500 from the north and 700 from Tasmania; there were some 1000

specimens from the neighbourhood of Port Jackson, and 200 from the island of Timor (not discussed here).

Brown wrote relatively little on the lower plants, but the existence of his paper on mosses (Brown, 1811) indicates he was to some extent interested in Bryophytes. But his greatest contribution to the plants that are our concern in this paper was the realization that the cycads had coniferous similarities (Brown, 1826).

Having survived the voyage to England in a leaking ship, impounding at the Custom House of Liverpool, and a journey to London by the roads of 1805 (Vallance *et al.*, in prep.), it is appropriate to examine what befell the specimens after their arrival in London. They appear to have gone initially to Banks's house in Soho Square. There and later at the British Museum, they were a major part of Brown's herbarium (Murray, 1904). During his lifetime Brown kept his own herbarium separate from the British Museum material and did not allow free access (Edwards, 1976), but George Bentham [1800-1884] consulted it in the preparation of his *Flora* (Bentham and Mueller, 1863-1878) (cf. Stearn, 1981). The next to feature as custodian of Brown's plants was J. J. Bennett [1801-1876]. Bennett became assistant to Brown at the British Museum in November 1827 and Brown's herbarium was left to him at Brown's death (Woodward, 1904; Mabberley, 1985). In his turn Bennett kept the Brown herbarium separate from the main herbarium but on his death (February 1876) his wife gave it to the British Museum and it was then incorporated into the General Herbarium. Duplicates, and material which today would not necessarily be considered as duplicate, were later distributed to other institutions in Europe and Australia. Those sent to Ireland have been listed by Powell and Morley (1976).

Unlike the practice in other British Museum departments, the Botany Department never prepared formal registers, so there are no present-day BM (NH) herbarium numbers as such.

There are indications that some Brown Herbarium vascular plant specimens were given to Banks's librarian Jonas Dryander [1748-1810] during his lifetime. The Brown specimens listed in the Bennett register do not include these duplicates. In our list we have included them only where we believe the original is lost and where we can relate them to the Bennett register entries. These Dryander duplicates are recognizable by Dryander's later label, but bear neither a Brown original label nor the blue sticker of Bennett's plants (see below), nor a number. Some are unique while others are plants from the same gathering as that to which a Bennett number was given. The actual numbering was done by James Britten [1846-1924], assistant and later librarian, in the Botany Department and was probably undertaken soon after Brown's herbarium was acquired on the death of Bennett.

Not all species given by Brown (1810) are in our list, as Brown sometimes selected Banks and Solander specimens for his descriptions. As an example, *Mitrasacme prolifera* R.Br., Spigeliaceae (Bennett 2894) bears a Brown label indicating that it came from the Endeavour River, Queensland, in 1770. The description of this taxon in the *Prodromus* (Brown, 1810: 453, entry 8) then, is of a Banks and Solander gathering, not Brown's.

Fortunately, Brown annotated his algal and pteridophyte original labels after the publication of Turner's (1807-19) *Fuci* and his own *Prodromus* (Brown, 1810). So we have reason for thinking that certain specimens are illustrated, or at least noticed, in these works. A fern example is Bennett 104 (*Gleichenia rupestris* R.Br., see below). Bryophyte and gymnosperm labels are not annotated in this way.

THE BENNETT REGISTER

After coming into possession of Brown's Herbarium Bennett instituted a register of

the material. This gave the plants both a number and a name. But it was left to Britten, assisted by Henry Trimen [1843-1896], to complete the task (Edwards 1976). No locality or ecological data are recorded in this 'Bennett Register'. Such detail as Brown committed to paper is obtainable only from the original labels on the herbarium sheets, and, in some instances, from Brown's descriptions in the Botany Library (the 'Brown Slips'). In the herbarium the Brown specimens catalogued by Bennett and his followers are recognized by a blue label bearing Britten's hand-written number and the printed words 'Iter Australiense 1801-5'.

One hundred and twenty-three numbers were allocated to Brown's algae and charophytes in the Bennett register. Of these, we have been able to find eighty-four. Because Bennett's workers missed specimens which we include, it is difficult to make numbers of 'found' taxa agree with the Bennett register. Some of Brown's algae were described by Dawson Turner [1775-1858], and in the list below, dates of publication of parts of Turner's *Fuci* (1807-1819) are given according to Price (1984). Fortunately, the specimens described by Turner (1807-19) are recognizable because Brown annotated his labels to the effect 'this is the specimen sent to Mr Turner'.

The absence of Brown's original labels in some cases means there is no locality information for some specimens. Also, the Brown locality 'South Coast' is disappointingly vague. But better locality data are often available where a specimen is mentioned in Turner (1807-19). In our list nomenclature, where appropriate, is in accordance with Womersley (1967, 1984, 1987). The charophyte nomenclature used in our list is that of Wood (1965) and we have located four out of five of Brown's charophytes.

The lichens were never given space in the Bennett register. It would appear that they were handed in the 1870s to the Rev. J. M. Crombie [1830-1906] to investigate, probably with a batch of blank 'Iter Australiense' labels. It is Crombie's writing on the blue labels accompanying Brown's original lichen labels and it would appear that Crombie also applied the series of numbers. The numbers used are between 500 and 579 (thus not duplicating any numbers assigned by Bennett and Britten). It is these numbers which were quoted by Crombie (1879). It can be seen from the lichen list that there are several species given the same number. This is because since the 1870s many have received revision and so now consist of more than one species under one number. Many of Brown's lichens were collected in Tasmania, and Kantvilas (1983) warns of the unreliable nature of many of Brown's labels. But, as others have found (Vallance and Moore, 1982), the original labels may give reliable provenance data and should not be regarded lightly.

Assuming that originally there were seventy-nine lichens, and each was allocated a number by Crombie, we have been unable to trace twenty-four of them.

The fungi too are somewhat neglected by the Bennett register. They were allocated numbers 142-156 (inclusive), but no identifications or other data were entered against the numbers. The specimens, probably all mounted, were transferred to Kew Herbarium when the BM(NH) fungal collection was passed to Kew as a result of the Moreton agreement of 1961 (cf. Stearn, 1981: 309-310). They have since been incorporated into the Kew collections. A search made there by one of us (EWG) to trace Brown's fungi, with the aid of the list of the ten names in Brown's appendix to Flinders (1814: 2, 592-4), has revealed only one possible fungus. This is 'Clavaria coralloides L.' (= *Clavaria cristata* var. *coralloides* Corner). While not attributed to Brown on the sheet, the writing beneath the specimen and the watermark of the paper appear to be contemporary with other Brown sheets at the BM(NH).

The majority of Brown's bryophytes in the BM(NH) remain unmounted and have still to be critically examined. As they lack Bennett numbers they have not been included here. But a minority were allocated Bennett numbers and subsequently

incorporated in the herbarium. These appear to be mostly from Tasmania. There is Brown material on some sheets from the Hooker herbarium (*ex Kew*) but this does not have original labels. From Brown's Diary (cf. Vallance *et al.*, in prep.) we know that Brown visited only Port Dalrymple, and the Esk Rivers and the River Derwent/Mt. Wellington areas of Tasmania in 1804. Despite this, we have accounted for all the spaces in the Bennett register assigned to bryophytes.

In the 1870s Bennett assigned one hundred and forty-four numbers to Brown's pteridophytes. We have found all but two.

Brown (1810) indicated by letters the provenance of the species described, for example 'D' for Tasmania, and 'J' for Port Jackson. The original labels were annotated by Brown so there is reason for thinking that certain specimens are the ones that formed the basis of the descriptions in Brown (1810).

Three cycadophytes are noted in the Bennett register. While we have traced two, there remains uncertainty over the identity of 'Zamia spiralis' of Flinders (1814: 1, 81). It appears to be a late entry to the Bennett register and thus existed in the 1870s. We have not traced it. Brown (1810: 348, entry 1 'J' & 'M') indicated his specimen was not tropical and from study of Brown's Diary (Vallance *et al.*, in prep.; cf. Flinders, 1814: 1, 348) we believe the specimen came from Lucky Bay, Western Australia. Consequently, we think it was, in fact, *Macrozamia riedlei* (Fisch. ex Gaudich.) C. A. Gardn., Zamiaceae (cf. Johnson, 1959: 103). This is 'Macrozamia spiralis Miq.' of Mabberley (1985: 86).

In our list of Brown's conifers we follow the nomenclatural recommendation of Mr K. Hill of the Royal Botanic Gardens, Sydney. Bennett assigned nineteen spaces in his register to this group. We have found fourteen specimens.

The manuscript Bennett register (now housed in the Botany Library, BM (NH)), is the only document to list the plant specimens gathered by Brown in Australia. But it was written seventy years after the voyage ended and is a somewhat inadequate document for curatorial purposes. There were, for example, 3900 numbers allocated but considerably fewer than this number of actual specimens; there are blank numbers in the register and the numbers do not run consecutively. For example, the bryophytes finish at 295 and the next entry, the Asteraceae (Compositae), start at 2000. So, as the sequential arrangement in the Bennett register bears no chronological relation to the order of collection, and exhibits only a rudimentary grouping into families, there is no advantage in giving our list in this manner. Consequently in our list the genera are arranged in alphabetical order under their respective groups. The number we have given to each entry has been applied merely to aid reference.

NOTES ON THE SPECIMEN LIST

1. In the following list we give Brown's original label entry, with his geographical and ecological data as they are set out on the labels. Keys to the geographical localities and anchorages around Australia will be found in Burbidge (1956) and Stearn (1960a).
2. For some listed specimens there is more than one original label per herbarium sheet, but in numerous instances there is more than one sheet per label and more than one plant per sheet. In some cases it is not always clear which label goes with which plant.
3. We have kept editorial comment on the texts of Brown's original labels (given here in single quotation marks) to a minimum, but we have indicated any references on the original labels to Turner's *Fuci* (1807-1819), Crombie (1879) and Brown (1810). The note 'Icones Bauer' found on some higher-plant labels appears not to be present on the pteridophyte labels. Our claim that the Bauer painting of, for example, *Azolla*, is based on a particular herbarium specimen is circumstantial and visual.

ALGAE

CHLOROPHYTA

1. *Anadyomene brownii* (Gray) J.Ag. Bennett 205
Lacks a Brown original label, and is thus unlocalized. An annotation on the sheet indicates that this is 'Calomena brownii' of Gray (1866: t.44, fig. 3) and has type status.

2. *Caulerpa brownii* (C.Ag.) Endl. Bennett 173
'Actaia selago? [sic] Kents Islands'
There are two sheets of this material with identical labels.

3. *Caulerpa cactoides* (Turn.) C.Ag. Bennett 166
'Actaia opuntia South Coast the specimen sent to Mr Turner'
'Fucus cactoides' of Turner (1809-11: 3, 89-90, t.171). Type status.

4. *Caulerpa flexilis* Lam. Bennett 172
(Syn. 'Caulerpa hypnoides' (R.Br.) C.Ag.)
'Actaia hypnoides Kents Islands'. Turner (1809-11: 3, 93-4, t.173).
Two specimens, one with type status.

5. *Caulerpa geminata* Harv. Bennett 167
(Syn. 'Caulerpa sedoides' (R.Br.) C.Ag.)
Two identical labels on the sheet. 'Actaia sedoides L Kents Islands. The specimens sent to Mr Turner'. In fact, 'Fucus sedoides' of Turner (1809-11: 3, 92, t.172). There is an annotation on another sheet *ex* Turner herb. (formerly at Kew) by I. R. Price, 16 xii 1974 to the effect that the specimen was the basis of Turner's figure. Type status.

6. *Caulerpa racemosa* var. *laetevirens* (Mont.) Weber van Bosse Bennett 168
No original labels, and specimen is consequently unlocalized, but a note by I. R. Price of 10 xii 1974 indicates he considered the material to be possibly of the tropical var. *lamourouxii* (Turn.) Weber van Bosse.

7. *Caulerpa racemosa* (Forsk.) J.Ag. var. *laetevirens* (Mont.) Weber van Bosse Bennett 169
'Actaia clavata South Coast'. I. R. Price in a note of 10 xii 1974 considers this locality incorrect.

8. *Caulerpa racemosa* (Forsk.) J.Ag. var. *laetevirens* (Mont.) forma *cylindrica* (Sonder) Unnumbered
Weber van Bosse
(Syn. 'Caulerpa cylindracea' Sonder)
Two specimens on one sheet, the lower one is labelled 'Actaia clavata South Coast'.

9. *Caulerpa scalpelliformis* (R.Br. ex Turn.) J.Ag. Bennett 171
Two labels: 1st reads 'Actaia scalpelliformis South Coast'; 2nd reads 'Actaia scalpelliformis South Coast the spec sent to Mr Turner'. Turner (1809-11: 3, 95-6, t.174).
Type status.

10. *Caulerpa sertularioides* (S.Gmel.) Howe Bennett 170
(Syn. 'Caulerpa taxifolia' (Turn.) C.Ag.)
Two sheets, label reads 'Caulerpa taxifolia Fucus taxifolius Turn South Coast'
'Fucus taxifolius' is featured in Turner (1807-8: 1, 120-122, t.54). In a note on the sheet of 10 xii 1974 I. R. Price considered this taxon to be tropical.

11. *Caulerpa simpliciuscula* (Turn.) C.Ag. Bennett 174
There are two sheets 'Actaia conglobata Kents Islands'. Turner 1809-11: 3, 98, t.175).
12. *Codium australicum* Silva Bennett 181 (pro parte)
No Brown label, consequently unlocalized.
13. *Codium duthieae* Silva Bennett 181 (pro parte)
No Brown label.
14. *Codium fragile* (Suringar) Hariot ssp. *tasmanicum* (J.Ag.) Silva Bennett 181
'SC' [?South Coast]. (pro parte)
15. *Codium muelleri* Kütz. Bennett 181a
No Brown label and unlocalized.
16. *Polyphysa peniculus* (R.Br. ex Turn.) C.Ag. Bennett 203
(Syn. 'Acetabularia peniculus' (R.Br. ex Turn.) Solms-Laubach)
Has type status but sheet on loan in November 1988.

PHAEOPHYTA

17. *Acrocarpia paniculata* (Turn.) Aresch. Bennett 213
Two labels: 1st reads 'The sp sent to Mr Turner Fucus scoparino Kents Islands Bass Strait'; 2nd reads 'Fucus paniculatus Turn. hist 3 p.99 t.176 Cystoseira paniculata Agardh [1823-8] Sp. alg. 1 p.76'. Turner (1809-11: 3, 99-100, t.176). Type status.
18. *Asperococcus bulbosus* Lam. Bennett 179
'F[ucus] ampullaceus is an incorrect name for a plant wch when perfect is filld with a dense gelatinous material' [reverse reads] 'Kents Islands & South Coast'.
19. *Carpoglossum confluens* (R.Br. ex Turner) Kütz. Bennett 226
'Fucus confluens Port Dalrymple'. 'Fucus confluens' of Turner (1809-1811: 3, 17, t.141), Agardh (1823-8: 1, 95). Type status.
20. *Cystophora brownii* (Turn.) J.Ag. Bennett 208
'Fucus Browni Turn Hist 4 p1 t 197 Cystoseira Brownii Agardh sp algar; 1 p.73' [reverse] 'sent to Mr Turner, you proposd to give it my name South coast frequent'. According to Turner (1811-19: 4, 2-3), the specimen is from King George Sound. See also, Agardh (1823-8: 1, 73). H. B. Womersley appended a note, dated 31 v 1952, to the effect that the lower of the two specimens on the sheet is the type of 'C. brownii', but the upper may be 'C. monilifera'.
21. *Cystophora moniliformis* (Esper.) Womersley & Nizamuddin ex Womersley Bennett 214
Two labels, 1st reads 'non logica F barbata sed distincta & prope F thuyoid: Herb Banks' [reverse] 'Fucus paniculatus litt. Kents Group'; 2nd reads 'Fucus spartioides Turn hist. 4 p.85 t.232. Mr Turner did not return the specimen which is in fructification RB'. Turner (1811-19: 4, 86, t.232). Type status.
22. *Cystophora retroflexa* (Labill.) J.Ag. Bennett 209
Two labels: 1st reads 'Fucus ramosissimus South Coast sent to Mr Turner'; 2nd reads

- '*Fucus retroflexus* Labill. Turn. hist. 3 p.47 t.155 *Cistoseira retroflexa* Agardh [1823-8] sp Alg. 1 p. 74. Turner (1809-11: 3, 48, t.155).
23. *Cystophora torulosa* (R.Br. ex Turn.) J.Ag. Bennett 211
 'Fucus torulosus Kents Islands Bass Strait 1803-4 The sp sent to Mr Turner'. Turner (1809-11: 3, 51, t.157). Another sheet (ex Kew herbarium), lacks a Bennett number, but is almost certainly another portion of the same gathering. It has a label which reads 'dup Fucus torulosus N Sp Turn fuc 3 [. . .] t157 Kents Group *Cystophora torulosa* Agardh. Turner (1809-11: 3, 52, t.157). Type status.
24. *Cystophora* sp.indet. Bennett 219
 'Fucus vagus the sp sent to Mr Turner Fucus vagus South Coast'. The Turner illustration implied by the original label is untraced.
25. *Cystophora* sp.indet. Bennett 221
 '*Cystoseira* (?) affin *retroflexa* Dr Agardh has a perfect specimen from Dr Greville'. Unlocalized.
26. *Cystophora* sp.indet. Bennett 224
 '*Cystoseira* [. . .] *retroflexa*'. Unlocalized.
27. *Cystoseira trinodis* (Forsk.) C.Ag. Bennett 218
 (Syn. '*Cystophyllum muricatum*' (Turn.) J.Ag.)
 Two labels: 1st reads 'Fucus angustifolius North Coast of New Holland F muricatus Mr Turner's writing'; 2nd reads '*Cystoseira muricata* North Coast *Cystoseira trinodis* Ag [1823-8], Sp Alg p.67 [. . .] 24 June 1833'. Turner (1808-09: 2, 107-8, t.112).
28. *Cystoseira trinodis* (Forsk.) C.Ag. Bennett 223
 No original labels, and unlocalized.
29. *Dictyopteris woodwardia* (R.Br. ex Turn.) J.Ag. Bennett 177
 Two identical labels which read 'Fucus woodwardia North Coast [reverse reads] a F membranaceo divers frondibus spinulo-denticula'. A third sheet ex Herb. Kew, although lacking the Bennett number, is of the same gathering. Type status.
30. *Dictyota* sp.indet. Bennett 251
 'Kents Islands'.
31. *Ecklonia biruncinata* (Bory) Papenfuss Bennett 229
 (Syn. '*Ecklonia radiata*' (Turn.) J.Ag.)
 'Fucus radiatus Turn. hist 2 p.161 t.134 Port Dalrymple too young for Baptism [sic]. Turner (1808-09: 2, 161-2, t.134).
 An annotation on the sheet indicates this specimen was identified by H. B. S. Womersley 25. v. 1952 as the type of Turner's var. *exasperata* of *F. radiatus*.
32. *Homoeostrichus sinclairii* (Hook. & Harv.) J.Ag. Bennett 175
 (Syn. '*Zonaria stiposa*' R.Br. ex J.Ag.)
 Two labelled sheets: 1st reads '*Zonaria* Nov sp'; 2nd reads 'Kents Islands'. Type status.
33. *Hormosira banksii* (Turn.) Decaisne No Bennett number
 No sheet bearing Brown's original label exists. There is, however, a label in Brown's

hand ex Herb. Kew which reads 'Nov. Holl. or occident. Herb. Mus. Paris Sep 1816 [added later] *Cystoseira expansa* Ag' [a third sheet is labelled] '*Cistoseira Banksii*'. Type status.

34. *Macrocystus pyriforme* (L.) C.Ag. Bennett 231
'*Fucus pyriformis* King's Island'.

35. *Perithalia caudata* (Labill.) Womersley Bennett 227
Two labels: 1st reads '*Fucus inermis* Port Dalrymple & South Coast of New Holland'; 2nd reads '*Fucus inermis* distinct from *F aculeatus* with minute globules terminating the ramuli'. Type status.

36. *Phyllospora comosa* (Labill.) C.Ag. Bennett 230
Two identical labels reading '*Fucus polyphyllus* South Coast of New Holland *F comosus*'. We note Turner (1809-11: 3, 18, t.142) gives the locality as 'Van Diemens Land'.

37. *Platythalia quercifolia* (R.Br. ex Turn.) Sond. Bennett 217
Three labels: 1st reads '*Fucus quercifolius* South Coast New Holland 1802 [. . .]'; 2nd reads '*Fucus quercifolius* South Coast of New Holland Turn hist 3 p37 t.151 *Cystoseira quercifolia* Ag'; 3rd label reads '*Fucus quercifolius* Turn hist 3. p.37 t.151'. Turner (1809-11: 3, 37, t.151). Type status.

38. *Sargassum decipiens* (Turn.) J.Ag. Unnumbered
Two labels: 1st reads '*Fucus polymorphus* [struck through] *decipiens* Port Dalrymple the sp sent to Mr Turner'; 2nd reads '*Fucus decipiens* Ag Turn fuc 3 p79 t166'. Turner (1809-11: 3, 79, t.166). Type status.

39. *Sargassum decurrens* (Turn.) J.Ag. Bennett 157
'*Fucus decurrens* Turn hist 3 p143 t194 North Coast (I believ) [sic] only specimen sp figured'. See Turner (1809-11: 3, 143, t.194). Type status.

40. *Sargassum heterophyllum* C.Ag. Unnumbered
Turner (1808-9: 2, 62, t.92) cites a Brown specimen of '*Fucus heterophyllum*' from 'Coast of New Holland' but this material is untraced.

41. *Sargassum lacerifolium* (R.Br. Turn.) J.Ag. Bennett 158
'*Fucus lacerifolius* Turn hist 3 p81 t.167 *Sargassum lacerifolium* Agardh [1823- 8] sp alg. 1- p15 [. . .]. From Port Dalrymple, Tasmania, according to Turner (1809-11: 3, 81-2, t.167). Type status.

42. *Sargassum paradoxum* (R.Br.) Harv. Bennett 210
Two labels: 1st reads '*Fucus paradoxus* South Coast'; 2nd reads '*Fucus paradoxus* Mss Turn Fuc 3 p.49 t156 *Cystoseira paradoxa* Agardh [1823-8] in sp. alg. 1 p.15'. Turner (1809-11: 3, 49, t.156). Type status.

43. *Sargassum vestitum* (R.Br. ex Turn.) C.Ag. Bennett 159
Two labels: 1st reads '*Fucus vestitus* Kents Islands Bass strait & South Coast The specimen sent to Mr Turner'; 2nd reads '*Fucus vestitus* Turn. hist. 3 p101 t177 *Sargassum vestitum* Agardh [1823-8] Sp. Alg. 1 p24'. Turner (1809-11: 3, 101-2, t.177). Type status.

44. *Sargassum* sp.indet. Bennett 161
'Sargassum North Coast of New Holland'
45. *Sargassum* sp.indet. Bennett 162
'Sargassum cum *S. ilicifolia* receptaculis convenit North Coast'
46. *Sargassum* sp.indet. Bennett 163
'Sargassum North Coast of New Hollnad'
47. *Scytothalia dorycarpa* (Turn.) Grev. Bennett 216
Two sheets and two labels: 1st reads 'Fucus platycarpus South Coast of New Holland The specimen sent to Mr Turner'; 2nd reads 'Fucus dorycarpus Turn hist 3. p.21 t.143 Cystoseira dorycapa Agardh [1823-8] Sp alg 1 p.80'.
'It is not clear in Turner (1809-11: 3, 24, t.144) if the illustrated specimen was collected by Menzies or Brown.
48. *Seirococcus axillaris* (R.Br. ex Turn.) Grev. Bennett 215
Two sheets, three labels in all: 1st reads 'Fucus axillaris Port Dalrymple The sp sent to Mr Turner sp fig'; 2nd reads 'Fucus axillaris Turn hist 3 p.27 t146 Cystoseira axillaris Agardh [1823-8] sp. alg p.80'; 3rd reads 'Cystoseira axillaris Port Dalrymple'. Turner (1809-11: 3, 28, t.146). Type status.
49. *Splachnidium rugosum* (L.) Grev. Bennett 225
Two labels: 1st reads 'Fucus rugosus Kents Islands shallow water on rocks. You say [sic] *Ulva rugosus* Herb[?] Lad'; 2nd reads 'Fucus rugosus Turn. hist 3 p.119 t.185 Agardh [1823-8] Sp alg. 1 p100 Kents Islands'. Turner (1809-11: 3, 118, t.185).
50. *Sporochnus radiceformis* (R.Br. ex Turn.) C.Ag. Bennett 228
'Fucus ?radiceformis is it a Fucus Kents Islands Bass Strait. Type status.
51. *Xiphophora chondrophylla* (R.Br. ex Turn.) Montague ex Harv. Bennett 271
Two labels: 1st reads 'Fucus chondrophyllus Port Dalrymple'; 2nd reads 'Fucus chondrophyllus Mss Turn. hist 4 p. 60 t.222'. Turner (1811-19: 4, 60, t.222).
52. *Zonaria* sp.indet. Bennett 182
No Brown label and consequently unlocalized.

RHODOPHYTA

53. *Brongniartella australis* (J.Ag.) Schmitz Bennett 195
'Griffithsia australis Ag [. . .]'. Unlocalized. Agardh (1823-8: 2, 135).
54. *Champia parvula* (C.Ag.) Harv. Bennett 240
No orig. label, consequently unlocalized.
55. *Coelarthrum muelleri* (Sonder) Borges. Bennett 245
'Fucus compar Kents Islands Bass Strait & South Coast of New Holland'. Another sheet ex Herb. Kew, of the same gathering, bears the locality in Brown's handwriting as 'South & East coasts of New Holland'.

56. *Gelidiella acerosa* (Forsk.) J. Feldmann & Hamel Bennett 264
(Syn. 'Gelidiopsis rigida' Grev.)
'Spharococcus rigidus Ag [1823-8] Sp. Alg. p.285 [. . .]'. No locality or other data on original label.
57. *Gelidium australe* J.Ag. Bennett 250
'F corneus? [sic]'. No locality given.
58. *Gelidium glandulaefolium* Hook. & Harv. Bennett 272
No Brown label. Secondary label reads 'Fucus Kents Group'.
59. *Gracilaria edulis* (S.Gmel.) Silva Bennett 269
(Syn. 'Gracilaria corniculata' (R.Br. ex Turn.) J.Ag.)
Two labels: 1st reads 'Fucus ceratophyllus [struck through] corniculatus The sp sent to Mr Turner Kents Islands 1803-4 proxe cornea a distinc: spec? [sic]'; 2nd reads 'Fucus corniculatus Turn 3 p.113 t.182'. Turner (1809-11: 3, 112, t.182). A note appended by H. B. S. Womersley on 27.v.1952 indicates 'this specimen may well be a Gigartina'. Type status.
60. *Griffithsia* sp. indet. Bennett 193
'Griffithsia'. No locality given.
61. *Hymenocladia divaricata* (R.Br.) Harv. Bennett 254
'Fucus divaricatus Mss in fructific only specimen Fucus divaricatus Turn hist 3 p.110 t.181'. Turner (1809-11: 3, 110, t.181) localizes Brown's material as from 'on the coast of New Holland'. Type status.
62. *Hymenocladia usnea* (R.Br.) J.Ag. Bennett 259
'Fucus usnea Mss Kents Group Basses Strait 1803-4'. A second label, not Brown's, reads 'Fucus usnea Ag Turner Hist 4 p70 t225. Chondria usnea Agardh [1823-8] Syn Alg. XVIII'. Turner (1811-19: 4, 70, t.225). Type status.
63. *Hypnea musciformis* (Wulf.) Lamour. Bennett 236
'F musciformis'. Unlocalized.
64. *Laurencia botryoides* (Turn.) Gaill. Bennett 253
On loan at time of compilation.
65. *Laurencia pinnatifida* (Huds.) Lam. Bennett 257
Two sheets with identical labels; 'Fucus pinnatifidus Kents Islands'.
66. *Leptophyllis conferta* (R.Br. ex Turn.) J.Ag. Bennett 263
Two labels: 1st reads 'Fucus confertus Kents Islands 1803 Scopula nov sp? [sic]'; 2nd reads 'Fucus confertus Mss Turn. 3 p177 t184 Delesseria ?conferta Ag. [1823-8] Sp. alg. p. 177? [sic]'. Turner (1809-11: 3, 116, t.184). Type status.
67. *Melanthalia obtusata* (Labill.) J.Ag. Bennett 260
Two labels: 1st reads 'Fucus strictus Port Dalrymple F obtusatus Labill.'; 2nd reads 'Fucus obtusatus Labill Turn. hist 3 p.25 t.145'. Turner (1809-11: 3, 25-6, t.145).

68. *Osmundaria prolifera* Lamour. Bennett 206
 (Syn. 'Polyphacum proliferum' C.Ag.)
 'Polyphacum proliferum Agardh [1823-8] Sp. alg. 1. p.106. *Osmundaria prolifera*
 Lamour Port Dalrymple the only specimen'
69. *Peyssonnelia australis* Sond. Bennett 176
 No Brown label, consequently unlocalized.
70. *Phacelocarpus labillardieri* (Mert. ex Turn.) J.Ag. Unnumbered
 No Brown gathering of this taxon has been traced in the BM (NH) herbarium, but there
 is a specimen marked 'Australia R Brown' (not in Brown's writing) and a fragment on
 another sheet labelled 'F scolopendrum Mss Mr Brown 1807 [sic]'. Both sheets were
 formerly in the Kew herbarium. Turner states regarding '*Fucus labillardieri*' that 'This
 plant has also been gathered upon the coast of New Holland by our own countryman,
 Mr Brown'. Turner (1809-11: 3, 8, t.137).
71. *Plocanium* sp.indet. Bennett 251
 'Fuci pulchilli var? [γ] Junior planta? Kents Islands Bass Strait according to you may be
 F aspenoides in herb.' Secondary label reads 'Delessaria plocamum [a]'
72. *Plocanium* sp.indet. Bennett 252
 'Fucus pulchellus Kents Island in Bass Strait & Port Dalrymple 1803-4.'
73. *Polyopes constrictus* (Turn.) J.Ag. Bennett 268
 Two labels: 1st reads 'Fucus densus Kents Islands 1803-4'; 2nd reads 'Fucus constrictus
 Turn. hist 3 p39 t152'. See Turner (1809-11: 3, 39-40, t.152). Type status.
74. *Polysiphonia decipiens* Mont. Bennett 235
 (Syn. 'Polysiphonia cancellata' Harv.)
 Lacks original label, and consequently unlocalized.
75. *Pterocladia lucida* (R.Br. ex Turn.) J.Ag. Bennett 266
 'Fucus lucidus Mss Turn. hist. 4 p99 t238'. Turner (1811-19: 4, 99, t.238) gives the locality
 as 'on the southern coasts of New Holland'.
76. *Rhabdonia verticillata* Herv. Bennett 244
 'Fucus is it diffit from Compar [sic] Kents Islands'.
77. *Rhodymenia cuneifolia* (Hook.f. & Harv.) Taylor Bennett 249
 (Syn. 'R. corallina' Grev.)
 No Brown label, consequently unlocalized.
78. *Trematocarpus concinnus* (R.Br.) De Toni Bennett 233
 'Fucus caespitosus according to you a var. of F plicatus Kents Islands One spec in fructil'.
 Type status.
79. *Trematocarpus concinnus* (R.Br.) De Toni Bennett 267
 Two labels: 1st reads 'Fucus scoparius [struck through] concinnus Kents Islands 1803-4';
 2nd reads 'Fucus concinnus Mss Turn. hist 3 p41 t153'. See Turner (1809-11: 3, 41-2,
 t.153). Type status.

80. *Vidalia fimbriata* (R.Br.) J.Ag. Bennett 261
Two labels: 1st reads 'Fucus fimbriatus North Coast of New Holl spec unic (?) [sic]'; 2nd reads 'Fucus fimbriatus Mss Turn. Hist. 3. p87 t170'. Turner (1809-11: 3, 87-8, t.170).
Type status.

CHAROPHYTA

81. *Chara corallina* Klein ex Willd. Bennett 277
(Syn. 'Chara australis' R.Br.)
'Chara crassifolia Port Jackson'
82. *Chara corallina* Klein ex Willd. Bennett 279
(Syn. 'Chara plebeja' R.Br.)
'Chara A Carpentaria Point [sic, locality not given]'
83. *Nitella congesta* (R.Br.) A.Br. Bennett 276
'Chara cfr B a Bay I South Coast'. Lucky Bay, Western Australia (cf. Burbidge, 1956).
84. *Nitella hyalina* (DC.) J.Ag. Unnumbered
Two sheets with identical data 'Chara B Point T Carpentaria'. Cape Shield, Northern Territory (cf. Burbidge, 1956).

LICHENES

85. *Cladia aggregata* (Sw.) Nyl. Bennett 532
'Lichen multiflorus Cladonia multiflora ericet elevat aust:' (cf. Crombie, 1879: 393), a type according to Filson (1981: 15).
86. *Cladia ferdinandii* (Müll. Arg) R. Filson Bennett 533
'Lucky Bay Cladia retipora'. Another sheet without a Bennett number, but of the same gathering, bears the label 'On the ground Lucky Bay Tasmania [sic]'. A note by R. Filson of 8 vi 1983 states that 'this specimen was probably collected at Lucky Bay, W Australia [. . .]'. The identification of this material has been confirmed by D. J. Galloway as *Cladia ferdinandii*.
According to Crombie (1879: 393) Brown's 'Lichen cribrosus' was from 'Mountain heaths, Australia'.
87. *Cladia retipora* (Labill.) Nyl. Bennett 534
'Lichen cribrosus Cladonia cribrosa enceta Montes que ora australis & Ins Diemen'. Tasmania, cf. Crombie (1879: 393) and Filson (1981: 23).
88. *Cladia retipora* (Labill.) Nyl. Bennett 534
No original label, probably another part of the gathering above.
89. *Cladonia squamosa* Müll. Arg. Bennett 531
(Syn. 'Cladonia subsquamosa' (Nyl.) Wain var. 'pulverulenta' (R.Br.) Vain. and 'C. pulverulenta' R.Br.)
No original label; Crombie's handwriting reads 'on the ground Table Mt. Tasmania R. Brown Cladonia acuminata (Ach)'.
Brown's 'Cladonia pulverulenta' was from Mt Wellington (cf. Crombie 1879: 392).

90. *Cladonia pleurota* (Flörke) Schaerer Bennett 530
 (Syn. 'Cladonia deformis' Hoffm.)
 'lat. sax. Mont. Tabul prom Dieman'. Brown's 'Lichen deformis' was from Mt Wellington, Tasmania, cf. Crombie (1879: 393).
91. *Cladina confusa* (R. Sant.) Follm. & Ahti Bennett 527
 'Lichen rangiferinus mons Tabul & encet'. Crombie (1879: 393) gives 'Mt Wellington on the ground'.
92. *Coenogonium implexum* Nyl. Bennett 504
 'Lichen spongiosus arb cort: laevi in sylvis umbrosus humidis ad radis Mont Tabul prom Diemen'. Mt Wellington, Tasmania (cf. Crombie, 1879: 399).
93. *Collema durietzii* Degel. Bennett 511
 'Lichen fascicularis? rip & arb Musc insula Diemen'. This specimen had been earlier identified by Crombie as 'Collema implicatum' Nyl. From trees near the River Derwent, Tasmania according to Crombie (1879: 391).
94. *Collema leucocarpum* Hook.f. & Tayl. Bennett 549 (bis)
 'Lichen obductus rup & arb orce australis N Holl & Ind Dieman'. Crombie (1879: 391-2). See also entry below.
95. *Collema subconveniens* Nyl. Bennett 549 (bis)
 We have not been able to trace this specimen, but Degelius (1974: 139) appears to have seen and cited it 'as *C. nigr[esens]* Lichen obductus (BM) N.W. Tasm'. According to Crombie (1879: 392) Brown's 'Lichen obductus' was from trees near the River Derwent, Tasmania.
96. *Diploschistes ocellatus* (Vill.) Norman Bennett 563
 'Lichen lateritus [. . .] prope Risdon Cove'. Tasmania (cf. Crombie, 1879: 399).
97. *Dirinaria picta* (Sw.) Clem. & Shear Bennett 546
 No original label; secondary label reads 'Lichen pictus Sw near Kingstown, Newcastle' (cf. Crombie, 1879: 397).
98. *Ephebe fruticosa* Henssen Bennett 522
 Two species on sheet: label reads 'Lichen pubescens Lin Ach L. exilis Lightf rup & sax inundat'. Specimen from the Grose River, NSW, according to Crombie (1879: 391).
99. *Ephebe tasmanica* Cromb. Unnumbered
 According to notes on the sheet there are three species present. The first is *Ephebe tasmanica* Cromb. The second *Ephebe fruticosa* A. Henssen. The third is *Pseudephebe pubescens* (L.) M. Choisy. (Syn. 'Electoria pubescens'(L.) Howe). According to Crombie (1879: 391) 'Lichen pubescens' was from River Grose, NSW.
100. *Flavoparmelia rutidota* (Hook.f. & Tayl.) Hale Bennett 539
 'Lichen cfr L caperatum fl Derwent'. Tasmania (cf. Crombie, 1879: 394).
101. *Graphis intricata* Fée Bennett 561
 'Lichen Opegrapha dendritica arb: trunce rip: fl Grose [. . .]'. According to Crombie

(1879: 401), the specimen was from the bark of trees, near the River Grose, New South Wales.

102. *Graphis platycarpa* (Eschw.) A. Zahlbr. Bennett 560
 'Lichen Opegrapha plebja cor: arb: prope P Jackson'. (*Graphis sophistica* Nyl. and *Opegrapha plebja* of Crombie, 1879: 401).

103. *Haematomma puniceum* (Ach.) Mass. var. *collatum* (Stirt.) Zahlbr. Bennett 569
 (Syn. 'Haematomma collatum' (Stirt.) Dodge)
 'Ad cortices Port Jackson'. Probably 'Lichen guttatus' gathered from bark of trees near Middle Harbour, Port Jackson; cf. Crombie (1879: 399).

104. *Haematomma puniceum* (Ach.) Mass. var. *infusum* (Stirt. ex Bailey) Zahlbr. Bennett 507
 (Syn. 'Haematomma infusum' (Stirton ex Bailey) R. W. Rogers)
 'Lichen guttatus Middle Harbour Port Jackson' (cf. Crombie, 1879: 399).

105. *Hypogymnia lugubris* (Pers.) Krog Bennett 526
 'Lichen nem aff L physodi lat Mont Tabularis'. Mt Wellington, Tasmania (cf. Crombie, 1879: 395).

106. *Hypogymnia mundata* (Nyl.) Rassad. Bennett 550 (bis)
 According to an annotation by J. A. Elix (of x 1977) this specimen, noted by Crombie as 'Parmelia mundatum var. pulverata Nyl. [. . .] Lichen dendrosme on trees base of Table Mt, Tasmania', is a mixture of the above species and *H. pulverata* (Nyl. ex Crombie) Elix.

107. *Hypogymnia pulverata* (Nyl. ex Cromb.) Elix Bennett 515 (on some sheets as 550)
 No original label, but has been written up by Crombie (1879) as a mixture of *Parmelia mundata* Nyl. (ex Derwent River) and 'Parmelia angustata' Pers. (ex Port Jackson). Remounting seems to have removed *P. mundata*, and the latter has been identified by J. A. Elix (x 1977) as the above.

108. *Hypogymnia tabularis* (Taylor) Elix Bennett 550
 'Lichen dendrosma [. . .] in sylvis umbrosis ad radic Montis Tabularis prope fl Derwent'. Determined by Crombie (1879: 395) as 'Parmelia mundata' Nyl., more recently by J. A. Elix (ix 1977) as the above.

109. *Lecidea flindersii* Cromb. Bennett 565
 'Superce [?] terra Risdon Cove'. Tasmania (cf. Crombie, 1879: 400).

110. *Melaspilea circumserpens* Nyl. Bennett 566
 'Lichen ambiguens I terra nude rarius in saxis In collibus prope Risdon Cove' Tasmania (cf. Crombie, 1879: 401).

111. *Nephroma cellulorum* (Ach.) Ach. Bennett 543
 'Lichen antarcticus rup umbrosos humid adrip fl Anna Maria infra calaratum'
 'Anna Maria River' appears to be Margate Rivulet, southeastern Tasmania, (cf. Vallance *et al.*, in prep.).

112. *Pannaria rubiginosa* (Thunb. ex Ach.) Del. Bennett 556
 'South coast Bay 3'. Fowlers Bay, South Australia (perhaps Crombie, 1879: 397).

113. *Parmelia tenuirima* Hook.f. & Tayl. Bennett 537
Two sheets: 1st reads 'Lichen amplissimus in saxis & rupibus collium prope fl: Derwent'
2nd sheet has no orig. label. 'Lichen amplissimus' of Crombie (1879: 394).
114. *Pseudephebe pubescens* (L.) M. Choisy Bennett 521
'Lichen lanatus sum Mont Tabul prom Diemen' (cf. Crombie, 1879: 395).
115. *Pseudocyphellaria billardierei* (Delise) Räsänen Bennett 536
'Lichen linearis in trunc arbor prope fluv Derwent' Tasmania (cf. Crombie, 1879: 396).
116. *Pseudocyphellaria crocata* (L.) Vainio Bennett 540 (bis)
'Lichen crocatus Dicks: Hoffm: rup & Sax in montosis' (cf. Crombie, 1879: 396). See *P. neglecta*, below, for second label.
117. *Pseudocyphellaria glabra* (Hook.f. & Tayl.) Dodge Bennett 538
'Lichen latissimus rup & sax Montis Tabularis'. Mount Wellington, Tasmania (cf. Crombie, 1879: 396). Determined as '*Sticta freycinetii*' Del. by Crombie.
118. *Pseudocyphellaria multifida* (Nyl.) D. Galloway & P. James Bennett 516
'Lichen dichotomus rup: umbros: [. . .] ad rep fl Anna Maria prope Calaractam' (cf. Crombie, 1879: 396). Perhaps Margate Rivulet, Tasmania.
119. *Pseudocyphellaria neglecta* (Müll. Arg.) H. Magn. Bennett 540 (bis)
'Lichen crocatus'. Locality as 116 above?
120. *Psoroma decipiens* (Hedw.) Hoffm. Bennett 567
(?Syn. 'Lecidea decipiens')
'Lichen decipiens [. . .] supra terra Risdon Cove' Tasmania (cf. Crombie, 1879: 400).
121. *Psoroma asperellum* Nyl. Bennett 547
'Lichen adscendens [. . .] ad latus Mont: Montis Tabularis'. Mt Wellington, Tasmania (cf. Crombie, 1879: 398).
122. *Psoroma hypnorum* (Vahl) S. F. Gray Bennett 554
'Lichen cfr: L hypnorum lat sax: Montis Tabularis prope Derwent'. Mount Wellington, Tasmania.
123. *Psoroma leprololum* (Nyl.) Räsänen Bennett 553
No original label, secondary label suggests specimen is 'Lichen denrosmae' from base of Mt Wellington, Tasmania, cf. Crombie (1879: 398).
124. *Psoroma soccatum* R.Br. ex Crombie Bennett 502
'Lichen soccatus trunce emiort ad radi Mont Tabularis' (cf. Crombie, 1879: 398-9).
Lectotype (Galloway, 1985: 481).
125. *Psoroma sphinctrinum* (Mont.) Nyl. Bennett 553
'Lichen Dendrosma reniles Derwent River' Tasmania (?Crombie, 1879: 398).
126. *Ramalina inflata* (Hook.f. & Tayl.) Hook.f. & Tayl. Bennett 519
'Lichen fastigiatus arb [. . .] prope P Jackson' (cf. Crombie, 1879: 393).

127. *Ramalodium succulentum* Nyl. ex Cromb. Bennett 551
 'Lichen succulentus arb: trunc & rup umbros ad rip fl Grose [. . .] 2 rami and musci' (cf. Crombie, 1879: 392).
128. *Relicina limbata* (Laurer) Hale Bennett 544
 Two specimens, but one original label missing; secondary label suggests 'Lichen pinnatus on rocks from Port Jackson. 2nd (original) labels reads 'Lichen pinnatus in saxis prope P Jackson' (cf. Crombie, 1879: 394).
129. *Siphula coriacea* Nyl. Bennett 501
 'Lucky Bay S Ct'. Another sheet, without a Bennett label, bears a label in Crombie's hand 'on the ground Lucky Bay Tasmania [sic]'.
 See also number 86, above. Crombie (1879: 393), however, has number 501 from Mt Wellington, Tasmania.
130. *Sphaerophorus melanocarpus* (Sw.) DC. Bennett 517
 Two sheets: 1st label reads 'Lichen fragilis arb trunc semi putrid ad rip flu alpinor Mon Tabul prom Diemen'; 2nd has no original label (cf. Crombie, 1879: 392).
131. *Sphaerophorus tener* Laurer Bennett 524
 'Lichen globiferus lat sax Mont Tabul prom Diemen' (cf. Crombie, 1879: 392).
132. *Stereocaulon ramulosum* (Sw.) Räsichel Bennett 526
 'Lichen ramulosus men alt L paschali lat Mont Tabul & rip fl Grose &' (cf. Crombie, 1879: 392).
133. *Stricta subcaperata* (Nyl.) Nyl. Bennett 555
 'Lichen filix Lin: fil. In lat umbros supra summitato Montis Tabularis insul. Dieman'.
 Mount Wellington, Tasmania (cf. Crombie, 1879: 396).
134. *Teloschistes chrysophthalmus* (L.) Th. Fr. Bennett 545
 'Lichen chrysophthalmus [. . .] Kents Group'. Bass Strait (cf. Crombie (1879: 396-7).
135. *Thamnolia vermicularis* (Sw.) Ach. ex Schaerer Bennett 528
 'Lichen vermicularis Cladonia vermicularis lat & sum: Mon Tabul prom Diemen'.
 Mount Wellington, Tasmania (cf. Crombie, 1879: 393).
136. *Thelotrema lepadinum* (Ach.) Ach. Bennett 520
 'Lichen ? [sic] occulatus Cort laevi: arbor ad ripas fluv: Grose [. . .]' (cf. Crombie, 1879: 399).
137. *Umbilicaria cylindrica* (L.) Delise in Duby Bennett 558
 Two specimens: 1st has no original label, secondary label suggests 'Lichen proboscideus summit of Table Mtn.' 2nd (original) reads 'Lichen proboscideus [. . .] sum: Mont Tabularis prope fl Derwent'. Mount Wellington, Tasmania (cf. Crombie, 1879: 397).
138. *Usnea acromelana* Stirt. var. *decipiens* (Lamb) Lamb Bennett 523
 (?Syn. 'Neuropogon acromelanus')
 'Lichen ustulatus rup sum: Mont Tabularis prom Diemen'. (cf. Crombie, 1879: 395).
 Holotype of variety (Walker, 1985).

139. *Usnea ceratina* Ach. Bennett 518 (bis)
(cf. Crombie, 1879: 394). Specimen untraced.
140. *Usnea florida* (L.) Wigg. Bennett 518 (bis)
'Lichen floridus' from the River Grose, N.S.W., specimen untraced. (cf. Crombie, 1879: 393).
141. *Xanthoparmelia australiensis* (Cromb.) Hale Bennett 525
'Scyphophorus lat Mont Tabul In Diem [sic]'. Mt Wellington, Tasmania according to Crombie (1879: 395), but this locality could be an error (Kantvilas 1983). According to Bibby (1951), and Elix *et al.* (1986) the locality is the Nullarbor region and Flinders Ranges. Holotype of species (Elix *et al.*, 1986).
142. *Xanthoparmelia multipartita* (Cromb.) Hale Bennett 542
'Lichen multipartitus in saxis prope P Jackson'. (cf. Crombie, 1879: 394-5). There is other material in the gathering with no original label; secondary label reads 'Lichen multipartitus rocks near Port Jackson'.
Taxon distributed in south-eastern Australia and this number is described as type by Elix *et al.* (1986).

BRYOPHYTA

LEAFY LIVERWORTS

143. *Jamesoniella colorata* (Lehm.) Spruce ex Schiffn. Bennett 293
Secondary label reads 'Tasmania'. The taxon is known to occur in Tasmania according to Scott (1985).
144. *Frullania falciloba* Taylor ex Lehm. Bennett 290
Secondary label reads 'Tasmania'. Known in Tasmania (Scott, 1985).
145. *Gackstroema weindorfii* (Herzog) Grolle Bennett 294
Secondary label reads 'Tasmania'. Known to occur, frequently in *Nothofagus* forests, in Tasmania (Scott, 1985).
146. *Lepicolea scolopendra* (Hook.) Dum. ex Trev. Bennett 292
Secondary label reads 'Tasmania'.
147. *Plagiochila* sp. indet. Bennett 291
Secondary label reads 'Tasmania'.

THALLOID LIVERWORTS

148. *Hymenophyton flabellatum* (Labill.) Dum. ex Trev. Bennett 295
(Syn. 'Symphyogyna flabellata' (Labill.) Mont.)
Secondary label reads 'Tasmania'. Known in Tasmania, Scott (1985). The specimen is unmounted, and in a folded and re-used sheet of Brown's herbarium drying paper on which is written 'Carpentaria Island s [. . .] 21 Jan'y 1803 [. . .]' but this is struck through in pencil.

149. *Symphyogyna podophylla* (Thunb.) Mont. & Nees Bennett 296
(Syn. 'Symphyogyna obovata' Hook.f. & Tayl.)
Secondary label reads 'Tasmania'. The label is annotated 'Syn Hep p.480' (cf. Gottsche *et al.*, 1844-7).
Scott (1985) confirms the Tasmanian occurrence of this taxon.

MUSCI

150. *Blindia magellanica* Schimp. Bennett 284
Secondary label reads 'Tasmania'. Tasmanian occurrence is confirmed by Scott and Stone (1976).
151. *Breutelia affinis* (Hook.) Mitt. Bennett 288
Secondary label reads 'Tasmania' (cf. Scott and Stone, 1976).
152. *Breutelia pendula* (Sm.) Mitt. Bennett 289
Secondary label reads 'Tasmania' (cf. Scott and Stone, 1976).
153. *Bryum billardieri* Schwaegr. Bennett 287
Secondary label reads 'Tasmania' (cf. Scott and Stone, 1976).
154. *Campylopus clavatus* (R.Br.) Wils. Bennett 282
Secondary label reads 'Tasmania' (cf. Scott and Stone, 1976).
155. *Campylopus introflexus* (Hedw.) Brid. Bennett 281
Secondary label reads 'Tasmania' (cf. Scott and Stone, 1976).
156. *Dawsonia polytrichoides* R.Br. Unnumbered
1st original labels reads: 'Nova Cambria Australis: ad radices montium prope Port Jackson Jan 1 1804 RB [sic]'; 2nd original label reads 'Dawsonia polytrichoides to show that part of the peristomium originates from the columnale or Placenta'. But an annotation on the wrapping paper of an unmounted specimen in a 'Herb. Brown' cover reads 'Genus Muscor frondos Proxim: Polytricho lesser division of the first branch of the River Grose Jan 1 1805 desc'.
The 1st original label is incorrectly dated. Brown was in Tasmania 1 January 1804 (cf. Vallance *et al.*, in prep.). The date 1 Jan 1805 is consistent with the New South Wales locality. Probably material from this gathering was described by Brown (1811) where the locality was given as 'Port Jackson'. Scott and Stone (1976) note the occurrence of this taxon in Tasmania, Victoria, New South Wales, A.C.T. and Queensland.
157. *Dicranoloma dicarpum* (Nees) Par. Bennett 285
Secondary label reads 'Tasmania' (cf. Stone and Scott, 1976).
158. 'Dicranoloma robustum' of BM (NH) Herbarium Bennett 283
Secondary label reads 'Tasmania'.
159. *Leptostomum erectum* R.Br. Unnumbered
Secondary label reads 'New Holland Mr Brown'. The mounted Hooker specimen (*ex* Kew Herbarium) bears a secondary label which reads 'New Holland Mr Brown'. Taxon known in Victoria, New South Wales and Queensland (Scott and Stone, 1976).
Possibly gathered with Brown's (1811) material from the 'Hawkesbury and Grose'.

160. *Leptostomum inclinans* R.Br. Bennett 286
Possibly this material was gathered with that described by Brown (1811) and from 'Van Diemens Land'. A Hooker specimen of this gathering (*ex* Kew Herbarium) has a secondary label which reads 'Table Mountain Van Diemens Land Mr Brown at an elevation of 3000-3500ft'. A label on the sheet indicates this specimen is the basis of the illustration by Brown (1811: 320, t.23, fig 2). A secondary label with the unmounted material reads 'Tasmania' (cf. Scott and Stone, 1976).
161. *Leptostomum macrocarpum* (Hedw.) Pyl. Unnumbered
Secondary label reads 'Leptostomum macrocarpum, Br Australia R Brown'. Known from Tasmania, New South Wales and Queensland according to Scott and Stone (1976).
162. *Tayloria octoblepharum* (Hook.) Mitt. Bennett 280
Secondary label reads 'Tasmania'. Scott and Stone (1976) confirm the occurrence in Tasmania.

PTERIDOPHYTA

LYCOPSIDA

163. *Lycopodium deuterodensum* Herter Bennett 126 (on same sheet as Bennett 127)
'Lycopodium candelabrum Derwent Huon &c' (*Lycopodium densum* of Brown, 1810: 165, entry 3-D).
164. *Lycopodium deuterodensum* Herter Bennett 127 (on same sheet as Bennett 126)
'Lycopodium venustum Port Dalrymple Jan 1804 [reverse] Lycopodium candelabrum'.
165. *Lycopodium deuterodensum* Herter Bennett 128
'Lycopodium candelabrum B & S Port Jackson [reverse] 3 Lycopodium densum' (Brown, 1810: 165, entry 3-J).
166. *Lycopodium fastigiatum* R.Br. Bennett 129
Two labels, 1st reads '4 Lycopodium fastigiatum Summit of Table Mountain VDL' (Brown, 1810: 165, entry 4-D); 2nd reads 'Lycopodium quadrifarium Port Jackson'.
167. *Lycopodium laterale* R.Br. Bennett 130
'Lycopodium diffusum Port del Esperance V D Land' (Brown, 1810: 165, entry 5-D).
168. *Lycopodium laterale* R.Br. Bennett 131
'Lycopodium laterale [. . .] Port Jackson' (Brown, 1810: 165, entry 6-J).
169. *Lycopodium myrtifolium* Forst.f. Bennett 123
'Lycopodium varium [alpha][. . .] Table Mountain' (Brown, 1810: 165, entry 1-D).
170. *Lycopodium myrtifolium* Forst.f. Bennett 124
'Lycopodium varium [beta] alpinae Mont Tabule' (Brown, 1810: 165, entry 1-D). Holotype of 'Lycopodium varium [beta] alpinum', according to an annotation on the sheet by J. M. Beitel 1981.
171. *Lycopodium scariosum* Forst.f. Bennett 125
'Lycopodium decurrens affr L reptans B & S: Mont Tabularis and fluv Derwent' ('Lycopodium decurrens' of Brown, 1810: 165, entry 2-D).

172. *Selaginella uliginosa* (Labill.) Spring Bennett 133
 'Lycopodium quadrilineum var Port Phillip'

173. *Selaginella uliginosa* (Labill.) Spring Bennett 132
 'Lycopodium uliginosum Labill' (Port Jackson, cf. Brown, 1810: 165, entry 7-J).

PSILOPSIDA

174. *Psilotum nudum* (L.) Beauv. Bennett 120
 Two labels: 1st reads 'Lycopodium nudum Broad Sound [reverse] 1 Psilotum triquetrum'; 2nd reads 'Lycopodioides nuda P.Jackson' ('Psilotum triquetrum' of Brown, 1810: 164, entry 1-J).

175. *Tmesipteris billardieri* Endl. Bennett 122 (on same sheet as Bennett 121)
 'Lycopodioides truncata [. . .] Derwent [reverse] 2 Psilotum truncatum' (Brown, 1810: 164, entry 2-D).

176. *Tmesipteris truncata* R.Br. Bennett 121 (on same sheet as Bennett 122)
 'Lycopodioides truncata [. . .] Port Jackson [reverse] 2 Psilotum truncatum' (Brown, 1810: 164, entry 2-J).

FILICOPSIDA (TRUE FERNS)

177. *Acrostichum aureum* L. Bennett 2
 Two labels: 1st reads 'Acrostichum fraxinifolium prod 145 Arnhem South Bay Feb 6 1803', Caledon Bay, Northern Territory (Burbidge, 1956); 2nd reads 'Acrostichum fraxinifolium [. . .] Port II prod 145', Port Clinton, Queensland (Burbidge, 1956). Brown was there in August 1802 (Vallance *et al.*, in prep.; Brown, 1810: 145, entry 2-T).

178. *Adiantum aethiopicum* L. Bennett 69
 'Adiantum assimile Shoal Water Bay Keppel Bay prodr 155.' *A. aethiopicum* of Beadle *et al.* (1972), perhaps Brown (1810: 155, entry 4). Brown, however, does not note a tropical specimen ('T').

179. *Adiantum aethiopicum* L. Bennett 70
 'Kangar[oo] Island' (Brown, 1810: 155, entry 4-M).

180. *Adiantum aethiopicum* L. Bennett 71
 'Adiantum ebenum Port Jackson' (Brown, 1810: 155, entry 4-J).

181. *Adiantum formosum* R.Br. Bennett 67
 'Adiantum formosum prodr 155 Port Jackson' (Brown, 1810: 155, entry 3-J).

182. *Adiantum formosum* R.Br. Bennett 68
 'Adiantum cfr formosum Port Jackson [. . .]' (Brown, 1810: 155, entry 3-J).

183. *Adiantum hispidulum* Sw. Bennett 64
 'Adiantum hispidulum Shoal Water Bay prodr 155' (Brown, 1810: 155, entry 2-T).

184. *Adiantum hispidulum* Sw. Bennett 65
 'Adiantum [. . .] hispidulosa Port Jackson' (Brown, 1810: 155, entry 2-J).

- 185.** *Adiantum hispidulum* Sw. Bennett 66
Three labels: 1st reads 'Adiantum cfr A. hispidulum Port Jackson; 2nd reads 'North rocks 8 August 1802'; (Brown, 1810: 155, entry 2-J). 3rd reads 'Dove Dale Feb 1804 - '.
- 186.** *Arthropteris tenella* (Forst.f.) J.Sm. Bennett 12
'Polypodium tenellium Forst prodr 147 Polypodium fimiculus rupibus & rare in loc umbrosis in rip[as] Grose' (Brown, 1810: 147, entry 8-J).
- 187.** *Asplenium aethiopicum* (Burm.f.) Bech. Bennett 33
(Syn. 'Asplenium furcatum' Thunb.)
'Asplenium praemorsum prodr 150 rup umbrose: Grose' (Brown, 1810: 150, entry 7-J).
- 188.** *Asplenium attenuatum* R.Br. Unnumbered, but corresponds to Bennett register entry 25
No original label; secondary label reads 'Nova Cambria Australis: Port Jackson R Brown' (Brown, 1810: 150, entry 2-J).
A duplicate of this in Kew Herbarium, as No 26, is from the 'Grose' River, Blue Mountains.
- 189.** *Asplenium bulbiferum* Forst.f. Bennett 35
Two labels: 1st reads 'Asplenium [. . .] laxum prodr 151'; 2nd reads 'Asplenium laxum prodr 151 (Brown, 1810: 151, entry 10-D).
- 190.** *Asplenium flabellifolium* Cav. Unnumbered, but corresponds to Bennett register 30
'Asplenium flabellifolium Van Diemens Land' (Brown, 1810: 150, entry 6-D).
- 191.** *Asplenium flabellifolium* Cav. Unnumbered but corresponds to Bennett register 31
'Asplenium flabellifolium Port Jackson' (Brown, 1810: 150, entry 6-J).
- 192.** *Asplenium nidus* L. Unnumbered but corresponds to Bennett register 25 (bis)
'Asplenium nidus Port Jackson' (Brown, 1810: 150, entry 1-J).
- 193.** *Asplenium nidus* L. Unnumbered but corresponds to Bennett number 25 (bis)
Three labels: 1st reads 'Asplen. nidus North Coast'; 2nd reads 'Asplenium nidus Linn prodr 150 Broad Sound West Peaked Hill In sylvis umbrosis ad radices arborum spec parasiticum' [cf. Brown, 1810: 150, entry 1-T]; 3rd reads 'Grose 1804' (cf. Brown 1810: 150, entry 1-J).
- 194.** *Asplenium obtusatum* Forst.f. Bennett 27
No original label; secondary label reads 'Insula Van Diemen 1804' (probably Brown, 1810: 150, entry 3-D).
- 195.** *Asplenium paleaceum* R.Br. Unnumbered but corresponds to Bennett register 29
No original label, secondary label reads 'Nova Cambria australis in monte prope Broad Sound 1802 Robert Brown' (cf. Brown, 1810: 150, entry 5-T).
- 196.** *Asplenium polyodon* Forst.f. Unnumbered but probably corresponds to Bennett register 28
(Syn 'A. falcatum' Lam.)
No original label; secondary label reads 'Nova Cambria australis Port Jackson' (perhaps corresponds with Brown, 1810: 150, entry 4-J).

197. *Azolla pinnata* R.Br. Bennett 134
Two labels: 1st reads 'Azolla pinnata Nob in stagnis prope Richmond in Nov Camb: durt'; 2nd reads 'Azolla pinnata Nob in stagnes & fluv len: fluat Richmond Hawkesbury' (Brown, 1810: 167, entry 1-J).
Bauer painting 229 (BM (NH) Botany Library) is probably based on this plant or the specimen below.
198. *Azolla pinnata* R.Br. Bennett 135
'Azolla filiciloides [sic] pinnata Patersons River Oct 1804' (Brown, 1810: 167, entry 1-J).
BM (NH) Bauer painting 229 perhaps based on this plant, but see above.
199. *Azolla filiculoides* Lam. var. *rubra* (R.Br.) Strasburger Bennett 136
'Azolla rubra Patersons River Oct 1804' ('Azolla rubra' of Brown, 1810: 167, entry 2-J).
200. *Blechnum camfieldii* Tindale Bennett 49
'Blechnum mutatum var. Port Jackson 8 Stegania procera prodr 153' ('Stegania procera' of Brown, 1810: 153, entry 8-J).
201. *Blechnum ambiguum* (Presl.) Kaulf. ex C.Chr. Bennett 41
Two sheets, with identical labels '3 Blechnum laevigatum Prodr 152 Port Jackson' (Brown, 1810: 152, entry 3-J).
202. *Blechnum cartilagineum* Sw. Bennett 39
'Blechnum paludosum Port Jackson [. . .] 1 Blechnum cartilagineum (Sw) prodr 152' (cf. Brown, 1810: 152, entry 1-J).
203. *Blechnum chambersii* Tindale Bennett 42
'2 Stegania lanceolata prodr 152 Van Diemens Land' (Brown, 1810: 152, entry 2-D).
204. *Blechnum fluviatile* (R.Br.) E. J. Lowe Bennett 43
'Pteris fluviatilis rivul alp Mont tabul. Derwent [. . .] 3 Stegania fluviatilis prodr 152' (cf. Brown, 1810: 152, entry 3-D).
205. *Blechnum indicum* Burm.f. Bennett 40
'2 Blechnum striatum prodr 152 Port Jackson' (Brown, 1810: 152, entry 2-J).
206. *Blechnum minus* (R.Br.) Ettingsh. Unnumbered but probably corresponds
'Insula Van Diemen 1804 RB' (Brown, 1810: 153, entry 7-D). to Bennett register 47
207. *Blechnum nudum* (Labill.) Mett. ex Luerss. Bennett 45
'Blechnum pteroides Port Dalrymple Jan 1804 5 Stegania nuda prodr 153' ('Stegania nuda' of Brown, 1810: 153, 5-D).
208. *Blechnum nudum* (Labill.) Mett. ex Luerss. Bennett 46
'Blechnum ?discolour Osmunda discolor B&S Kings Id 6 Stegania falcata prodr 153 [. . .]' ('Stegania falcata' of Brown, 1810: 153, entry 6-D).
209. *Blechnum penna-marina* (Poir.) Kuhn Bennett 44
'Pteris alpina desc cat Mont Tabul Derwent 4 Stegania alpina prodr 152 ('Stegania alpina' of Brown, 1810: 152, entry 4-D).

210. *Blechnum penna-marina* ssp. *alpina* (R.Br.) Kuhn Unnumbered but probably corresponds to Bennett register 44
'Insula Van Diemen in summitate Montis Tabularis 1804 RB *Stegania alpina* prodr [. . .]' (probably another sheet of the above, cf. Brown, 1810: 152, entry 4-D).
211. *Blechnum watsii* Tindale Bennett 48
'*Blechnum mutatum* desc Kings Island 8 *Stegania procera* prodr 153' (Brown, 1810: 153, entry 8-D).
212. *Blechnum watsii* Tindale Bennett 49 (bis)
'Port Jackson 8 *Stegania procera* prodr 153' (cf. '*Stegania procera*' of Brown, 1810: 153, entry 8-J). The label bears an annotation by T. C. Chambers dated 6. xii. 1977 which reads 'Maybe a hybrid but closest to *Blechnum watsii* Tindale.'
213. *Botrychium australe* R.Br. Bennett 119
'1 *Botrychium australe* prodr 164 Paramatta Port Jackson' (Brown, 1810: 164, entry 1-J).
214. *Cheilanthes austrotenuifolia* Quirk & Chambers Bennett 74
'*Adiantoides crispa* Kangar[oo] Id'.
See Quirk *et al.* (1983: 510-3) regarding the relationship of *Cheilanthes austrotenuifolia* and *C. tenuifolia*.
215. *Cheilanthes austrotenuifolia* Quirk & Chambers Bennett 76
'*Adiantoides crispa* Port Jackson' (see above, and Quirk *et al.*, 1983: 510-3).
216. *Cheilanthes austrotenuifolia* Quirk & Chambers Bennett 77
'Goose Id Bay South Coast *Adiantoides crispa* var' (see above, and Quirk *et al.*, 1983: 510-3).
217. *Cheilanthes brownii* (Desv.) Domin Bennett 5(a)
'Arnhem South Bay Point U₁ Feb^y 6 1803 2 *Notholaena vellea* prodr 146'.
Mt. Caledon, Caledon Bay, Northern Territory (Burbidge, 1956; Vallance *et al.*, in prep.). '*Notholaena vellea*' of Brown (1810: 146, entry 2-T). Holotype (Quirk *et al.*, 1983: 529-31).
218. *Cheilanthes brownii* (Desv.) Domin Bennett 5(b)
'Shoalwater Bay Conical Pine Hill' (Perhaps '*Notholaena vellea*' of Brown, 1810: 146, entry 2-T).
219. *Cheilanthes caudata* R.Br. Bennett 78
'*Pteris* [struck through] *Cheilanthes caudata* prodr 156 Port II' Port Clinton, Queensland (Burbidge, 1956). Visited by Brown in August 1802 (Vallance *et al.*, in prep.). Brown (1810: 156, entry 2-T). Holotype (Quirk *et al.* 1983: 540-1).
220. *Cheilanthes distans* (R.Br.) Mett. Bennett 4(a)
'*Adiantoides palacea* Port Jackson [. . .] *Notholaena distans* prodr 146' ('*Notholaena distans*' of Brown, 1810: 146, entry 1-J). Holotype (Quirk *et al.*, 1983: 526-9).
221. *Cheilanthes lasiophylla* Pichi-Serm. Bennett 4b
'*Adiantoides paleacea* Inlet XII [. . .] *Notholaena* cfr *N. distans*'
At the Head of Spencer Gulf (Burbidge 1956), but Brown (1810: 146, entry 1) indicates

Port Jackson as the source of the material. The *Prodromus* entry should have the 'M' annotation if Spencer Gulf is meant. See Quirk *et al.* (1983: 531-2) and Pichi-Sermolli (1951) regarding relationship with 'Notholaena canescens'.

222. *Cheilanthes nudiuscula* (R.Br.) T. Moore Bennett 60
 'Pteris denudata v[ar] N Coast Id. y2'
 Pibassoo's Island, Northern Territory (Burbidge, 1956). 'Pteris nudiuscula' of Brown (1810: 155, entry 8-T). Holotype (Quirk *et al.*, 1983: 537-40).
223. *Cheilanthes tenuissima* Bailey Bennett 61
 'Adiantoides pubescens North Coast Island y2 & C'. Pibassoo's Island, as above.
224. *Cheilanthes tenuissima* Bailey Bennett 3
 'Acrostichum gracile [struck through] pteroides prodr 145 North Coast Islands 1803 RB' (Brown 1810: 145, entry 3-T). Type of 'Acrostichum pteroides' R.Br. (Quirk *et al.*, 1983: 541-3).
225. *Cheilanthes tenuifolia* (Burm.f.) Sw. Bennett 72
 (Syn. ssp. *queenslandica* Domin., see remarks on relationship of *C. austrotenuifolia* and *C. tenuifolia* by Quirk *et al.* (1983: 506-13). 'Adiantoides crispa var. North Coast Islands' (Brown, 1810: 155, entry 1-T).
226. *Cheilanthes* sp.indet. Bennett 73
 'Adiantoides crispa Port II', Port Clinton area, Queensland (Burbidge, 1956).
227. *Cheilanthes* sp.indet. Bennett 75
 'Adiantoides cicutaria Pteris [sic] Port II'
228. *Christella dentata* (Forsk.) Browns. & Jermy Bennett 21(a)
 '5 Nephrodium molle Prodr 149 [reverse reads] Plenosouris Polypod: molle Jacq. Grose' (Brown, 1810: 149, entry 5-J).
229. *Christella dentata* (Forsk.) Browns. & Jermy Bennett 21(b)
 'Polypodium molle Jacq adrip: Patersons Hunter William Rivers det 1804 [reverse reads] 5 Nephrodium molle Prodr 149' (Brown, 1810: 149, entry 5-J).
230. *Ctenopteris heterophylla* (Labill.) Tindale Bennett 13
 'Polypodium arbor prope in caulis Dicksonia Derwent 9 Polypodium grammitidis prodr 147' ('Polypodium grammitidis' of Brown, 1810: 147, entry 9-D).
231. *Culcita dubia* (R.Br.) Maxon Bennett 86
 Two labels: 1st reads 'Cfr D. cicutarian [struck through] Banks of Hunter's River Nov 1804 4 Davallia dubia prodr 157'; 2nd reads 'Davallia dubia Port Phillip' (Brown, 1810: 157, entry 4-J and D).
232. *Culcita dubia* (R.Br.) Maxon Bennett 87
 '4 Davallia dubia adripes fl. Patersons & Hunters Rivers Oct: Nov: 1804' (Brown, 1810: 157, entry 4-J).
233. *Culcita dubia* (R.Br.) Maxon Bennett 88
 Two identical sheets '4 Davallia dubia Pt Jackson' (Brown, 1810: 157, entry 4-J).

234. *Culcita dubia* (R.Br.) Maxon Bennett 89
 '4 *Davallia multiflora* [struck through] *dubia* Port Jackson' (Brown, 1810: 157, entry 4-J).
235. *Culcita dubia* (R.Br.) Maxon Bennett 90
 '4 *Davallia dubia* prodr 157 Port Dalrymple Jan 1804' (Brown, 1810: 157, entry 4-D).
236. *Cyathea australis* (R.Br.) Domin Bennett 94
 'Cyalloides Kings Island Basses Strait' ('*Alsophila australis*' of Brown, 1810: entry 1-D).
 A tree fern, occurring in gullies near the sea. Lectotype (Tindale, 1956: 350).
237. *Cyathea australis* (R.Br.) Domin Bennett 95
 '1 *Alsophila australis* prodr 158' (probably '*Alsophila australis*' of Brown, 1810: 158, entry 1-J).
238. *Davallia pyxidata* Cav. Bennett 84
 '4 *Davallia glycopoda* P Jackson in rep' (Brown, 1810: 156-7, entry 1-J).
239. *Davallia pyxidata* Cav. Bennett 85
 Two sheets: 1st reads '*Davallia pyxidata* b Hunters River, Ash Island'; 2nd reads '*Davallia glycopoda* P Jackson in rup Grose [sic]' (Brown, 1810: 156-7, entry 1-J).
240. *Dennstaedtia davallioides* (R.Br.) T. Moore Bennett 93
 '4 *Davallia tenera* Banks of Patersons River Oct: 1804 *Dicksonia davallioides* prodr 158' (Brown, 1810: 158, entry 2-J).
241. *Dicksonia antarctica* Labill. Bennett 92
 Two sheets: 1st reads '*Dicksonia australis* Kings Island'; 2nd reads '*Dicksonia antarctica* Van Diemen [sic] Kings Island' (second label relates to Brown, 1810: 157, entry 1-D. See also next).
242. *Dicksonia antarctica* Labill. Bennett 91
 Two labels: 1st reads '*Dicksonia australis* Derwent'; 2nd reads '*Dicksonia antarctica* prodr 157 Derwent' (Brown, 1810: 157, entry 1-D).
243. *Dicranopteris linearis* (Burm.f.) L. Underw. Bennett 111
 '4 *Polypodium dichotomum* Shoalwater bay passage [. . .] 8 *Gleichenia Hermanni* prodr 161' (Brown, 1810: 161, entry 8-T).
244. *Diplazium australe* (R.Br.) Wakef. Unnumbered, but probably corresponds to Bennett register entry 24
 No original labels, but on back of sheet, not in Brown's hand, '*Nova cambria australe* Port Jackson' (perhaps '*Allantodia tenera*' R.Br., cf. Brown, 1810: 149, entry 2-J).
245. *Doodia aspera* R.Br. Bennett 36
 '4 *Woodwardia aspera* Banks of Hunters River frequent Oct-Novr 1804 *Doodia aspera* prodr 151' (Brown, 1810: 151, entry 1-J).
246. *Doodia caudata* (Cav.) R.Br. Bennett 37
 '4 *Woodwardia blechnoides* sp5 [sic] Port Jackson [. . .] *Doodia caudata* prodr 151' (Brown, 1810: 151, entry 3-J).

247. *Doodia caudata* (Cav.) R.Br. Bennett 38
 'Woodwardia Port Dalrymple Jan: 1804' (Brown, 1810: 151, entry 3-D).
248. *Doryopteris concolor* (Langsd. & Fisch.) Kuhn Bennett 62
 'Pteris pedata prodr 155 Broad Sound in Montibus prope Upper Head' (Brown, 1810: 155, entry 9-T).
249. *Drynaria rigidula* (Sw.) Bedd. Bennett 14a (but should be 15)
 'Polypodium anomalum Carpentaria Groote Eyland Frondes sterilis sumatae breviores latiores [reverse reads] Polypodium quercifolium B non Lin.' (Brown, 1810: 147, entry 10-T).
250. *Drynaria sparsisora* (Desv.) T. Moore Bennett 14b (bis)
 '10 Polypodium quercifolium Prodr 147 Carpentaria Coen River' (Brown, 1810: 147, entry 10-T).
251. *Drynaria sparsisora* (Desv.) T. Moore Bennett 14b (bis)
 'Polypodium Keppel Bay' (Brown, 1810: 147, entry 10-T).
252. *Gleichenia alpina* R.Br. Bennett 105
 '3 Gleichenia alpina desc prodr 160 Summitat Table Mountain Derwent' (Brown, 1810: 161, entry 3-D).
253. *Gleichenia dicarpa* R.Br. Bennett 108
 (Syns. 'Gleichenia circinnata' Sw., 'Calymella circinnata' (Sw.) Ching.?)
 'Gleichenia pubescens sp [. . .] P Dalrymple desc' (possibly Brown, 1810: 161, entry 5-D).
254. *Gleichenia microphylla* R.Br. Bennett 106
 (Syn. 'Calymella circinnata' (Sw.) Ching.?)
 'Gleichenia cfr speluncae Port Jackson' (Brown, 1810: 161, entry 4-J).
255. *Gleichenia microphylla* R.Br. Bennett 107
 Two labels: 1st reads '4 Gleichenia microphylla Prodr 161 Kings Island'; 2nd reads 'Port Jackson' (Brown, 1810: 161, entry 4-D (label 1) and J (label 2)).
256. *Gleichenia microphylla* R.Br. Unnumbered
 No original label: secondary label reads 'New Holland Kents Group Dec 1803' (Brown, 1810: 161, entry 4-D).
257. *Gleichenia rupestris* R.Br. Bennett 104
 (Syn. 'Calymella rupestris' (R.Br.) Ching.)
 'Gleichenia austriaca desc Port Jackson [. . .] 2 Gleichenia rupestris Port Jackson prodr 160' (Brown, 1810: 160, entry 2-J).
258. *Gleichenia speluncae* R.Br. Bennett 103
 (Syn. 'G. circinnata' var.?, or 'G. microphylla R.Br. ?).
 'Gleichenia subsimplex desc rup [. . .] Port Jackson' (Brown, 1810: 160, entry 1-J).

259. *Grammitis billardieri* Willd. Bennett 6 b & c
Label 6b reads 'Ceterach polypodiodes rupestris in later Mont Tabul Derwent Grammitis australis prodr 146' (Brown, 1810: 146, entry 1-D); 6c reads 'Grammitis australis prodr 146 Port Jackson 1804 RB' (Brown, 1810: 146, entry 1-J).
260. *Histiopteris incisa* (Thunb.) J.Sm. Bennett 52
'3 Pteris vespertilonis P Jack[son and] Derwent' (Brown, 1810: 154, entry 3-J).
261. *Histiopteris incisa* (Thunb.) J.Sm. Bennett 54
'3 Pteris vespertilonis prodr 154 Kings Island' (Brown, 1810: 154, entry 3-D).
262. *Histiopteris incisa* (Thunb.) J.Sm. Bennett 55
'Pteris vespertilonis B Port Jackson' (Brown, 1810: 154, entry 3-J).
263. *Hymenophyllum cupressiforme* Labill. Bennett 100
'Hymenophyllum tunbridgense prodr 159 Derwent' (Brown, 1810: 159, entry 4-D).
264. *Hymenophyllum flabellatum* Labill. Bennett 98
'Hymenophyllum nitens prodr 159 Derwent' (Brown, 1810: 159, entry 2-D).
265. *Hypolepis rugosula* (Labill.) J.Sm. Bennett 16a
'12 Polypodium rugosulum Prod 147 [reverse reads] Polypodium affine Kings Island' (Brown, 1810: 147, entry 12-D).
266. *Lastreopsis decomposita* (R.Br.) Tindale Bennett 22
'Pteridioides acuminata Polypodium Involuc renif. adip. Hunters River Oct 1804 7 Nephrodium decompositum prodr 149'
(*'Nephrodium decompositum'* of Brown, 1810: 149, entry 6-J). Holotype of *L. decomposita* (cf. Tindale, 1965: 320-3).
267. *Lastreopsis decomposita* (R.Br.) Tindale Bennett 23
'Polypodium tenerum Broad Sound Peaked West Hill in sylvis umbris [. . .] 7 Nephrodium decompositum [struck through] tenerum prodr 149' (*'Nephrodium tenerum'* of Brown, 1810: 149, entry 7-T).
268. *Lindsaea ensifolia* Sw. Bennett 80
'Lindsaea lanceolata Prodr 156 [reverse reads] Lindsaea pleroides [*'Vittaria'* struck through] Port II Shoal Water Bay passage' (Brown, 1810: 156, entry 2-T). This specimen has been determined by K. U. Kramer in 1965 as the ssp. *agati* (Brack.) Kramer.
269. *Lindsaea ensifolia* Sw. Bennett 81
'2 Lindsaea lanceolata [β] [reverse reads] Lindsaea polymorpha North Coast Island Y₂' Arnhem Bay area, N.T. (Burbidge, 1956; Brown, 1810: 156, entry 2-T). Determined by K. U. Kramer in 1965 as the ssp. *agati* (Brack.) Kramer.
270. *Lindsaea linearis* Sw. Bennett 79
Two labels: 1st reads 'Lindsaea recurifera Port Jackson [reverse reads] Lindsaea linearis Prodr 156'; 2nd reads '1 Lindsaea linearis' (Brown, 1810: 156, entry 1-J, and Kramer and Tindale, 1976: 112-3).

271. *Lindsaea microphylla* Sw. Bennett 83
Original label damaged, remaining part reads '[. . .] Port Jackson' (Brown, 1810: 156, entry 4-J, and Kramer and Tindale, 1976: 95-8).
272. *Lindsaea media* R.Br. Bennett 82
'Lindsaea irregularis North Coast Island y2 Feb 18-24 1803 Z' Pibassoo's Island (Burbidge, 1956). (Brown, 1810: 156, entry 3-T, and Kramer and Tindale, 1976: 98-101).
273. *Lygodium flexuosum* (L.) Sw. Unnumbered but probably corresponds to Bennett register entry 116
'Nova Hollandia or septen trionalis 1803 RB' ('Lygodium semibipinnatum' of Brown, 1810: 162, entry 2-T).
274. *Lygodium microphyllum* (Cav.) R.Br. Unnumbered but probably corresponds to Bennett register entry 115
(Syn. 'Lygodium scandens' (L.) Sw.)
No original label; secondary labels reads 'Nova Cambria australis inter tropicum RB' ('Lygodium microphyllum' of Brown, 1810: 162, entry 1-T).
275. *Marsilea angustifolia* R.Br. Bennett 141
'3 Marsilea angustifolium Carpentaria Island g Dec 25 1802', Vanderlins Island (Burbidge, 1956; cf. Vallance *et al.*, in prep.). (Brown, 1810: 167, entry 3-T).
276. *Marsilea hirsuta* R.Br. Bennett 138
'Marsilea hirsuta Carpentaria Island f, Bountiful Island (Burbidge, 1956). Brown was there on 3 December 1802 (Vallance *et al.* in prep.). (Brown, 1810: 167, entry 2-T).
277. *Marsilea hirsuta* R.Br. Bennett 139
'2 Marsilea [quadrifolia struck through] hirsuta Broad Sound in frales de propes scites temporebus inundatis' (perhaps Brown, 1810: 167, entry 2-T). 'Marsilia quadrifolia' of Brown's Diary, collected on 15 September 1802 (Vallance *et al.*, in prep.).
278. *Marsilea hirsuta* R.Br. Bennett 140
'2 Marsilea villosa [struck through] hirsuta in [. . .] Port Jackson' (Brown, 1810: 167, entry 2-J).
279. *Marsilea mutica* Mett. Bennett 137
(Syn. 'M. brownii' R.Br., cf. Beadle *et al.* (1972), in index.)
'1 Marsilea quadrifolia Port Jackson' (Brown, 1810: 167, entry 1-J).
280. *Marsilea mutica* Mett. Unnumbered
Two labels: 1st reads 'Nova Cambria australis Port Jackson R Br'; 2nd reads 'Marsilia australis RB Marsilia quadrifolia prodr [blank]' (probably Brown, 1810: 167, entry 1-J).
281. *Mecodium australe* (Willd.) Copel Bennett 99
'3 Hymenophyllum flabellatum ['undulatum' struck through] Labill prodr 159 Derwent' ('Hymenophyllum flabellatum' of Brown, 1810: 159, entry 3-D).
282. *Mecodium rarum* (R.Br.) Copel. Bennett 97
Two labels: 1st reads '1 Hymenophyllum rarum prodr 159 Derwent'; 2nd reads 'Hymenophyllum rarum prodr [. . .] Van Diemens Island 1804 RB' (Brown, 1810: 159, entry 1-D).

283. *Microsorium punctatum* (L.) Copel. Bennett 10
 '5 Polypodium irioides ['punctatum' struck through] Prodr 147 Keppel Bay Shoal Water Bay Broad Sound'. Another sheet of the same gathering has a secondary label which reads 'Nova Cambria Australis intra tropicum 1802 RB' (Brown, 1810: 147, entry 5-T).
284. *Nephrolepis hirsutula* (Forst.f.) C. Presl Bennett 20
 'Nephrodium exaltatum prodr 148 Plendioides davilliastrum desc ['Davallioides' struck through] Port II East Coast'. Port Clinton, Queensland (Burbidge, 1956), (Brown, 1810: 148, entry 2-T).
285. *Ophioglossum costatum* R.Br. Bennett 118
 '2 Ophioglossum costatum Arnhem N Bay Feb 14 1803 desc 55' (Brown, 1810: 163, entry 2-T).
286. *Pellaea falcata* (R.Br.) Fee Bennett 59
 'Kents Islands & Hawkesbury 6 Pteris ['adiantoides' struck through] falcata prodr 154' ('Pteris falcata' of Brown, 1810: 154, entry 6-J and D).
287. *Pellaea paradoxa* (R.Br.) Hook. Bennett 63
 'Port Jackson 1 Adiantum paradoxum prodr 155' ('Adiantum paradoxum' of Brown, 1810: 155, entry 1-J).
288. *Phymatosorus diversifolia* (Willd.) Pichi Serm. Bennett 11a-c
 Three sheets: 1st (Bennett 11a) reads '6 Polypodium billardieri prodr 147 Port Dalrymple in umbrosis & truncus arbor Jan 1804'; 2nd reads (Bennett 11b) 'Polypodium polymorphum var Port Jackson'; 3rd (Bennett 11c) reads 'Kents Group Bass Strait 7 Polypodium ['lycopodioides' struck through] Billardieri prodr 147' ('Polypodium billardieri' of Brown, 1810: 147, entry 7-D). The indication would appear to be that the Port Jackson specimen did not feature in the description.
289. *Platyserium bifurcatum* (Cav.) C.Chr. Bennett 1
 Two labels: 1st reads 'Acrostichum alciorne prodr p145 Port Jackson 1802-5 Rocks & Trees'; 2nd reads '1 Acrostichum alciorne prodr 145' (Brown, 1810: 145, entry 1-J).
290. *Platyzoma microphyllum* R.Br. Bennett 101
 (?Syn. 'Gleichenia platyzoma' F. Muell.)
 'Platyzoma microphylla Carpentaria Island h' (North Island cf. Burbidge 1956) (Brown, 1810: 160, entry 1-T).
291. *Platyzoma microphyllum* R.Br. Bennett 102
 (? Syn. 'G. platyzoma' F. Muell.)
 'Acrostichum? Gleichenia? Facing Island Port I' (Queensland, cf. Brown, 1810: 160, entry 1-T).
292. *Pleurosorus rutiflorus* (R.Br.) Fee Bennett 7
 'Derwent Risdon 2 Grammitis rutaefolia prodr 146'. Another specimen on this sheet bears the secondary locality 'Nova Hollandia ora australis Kangaroo Island 1802 RB' (probably 'Grammitis rutaefolia' of Brown, 1810: 146, entry 2-D).

293. *Polyphlebium venosum* (R.Br.) Copel. Bennett 96
 'Derwent 1 Trichomanes [‘repandum’ struck through] venosum prodr 159’ (Brown, 1810: 159, entry 1-D).
294. *Polystichum australiense* Tindale Bennett 18
 No original label; secondary annotation reads ‘Derwent’. Separated out from material of Bennett 17 (see below) and assigned by Bennett’s workers to No 18.
295. *Polystichum proliferum* (R.Br.) C. Presl Bennett 17
 ‘Aspidium proliferum prodr 147 desc Port Jackson [and] Derwent’ (Brown 1810: 147-8, entry 1-D). Lectotype (Tindale, 1961: 50).
296. *Pteridium esculentum* (Forst.f.) Cockayne Bennett 57
 ‘Pteris esculenta var P Jackson’ (Brown, 1810: 154, entry 5-J).
297. *Pteridium esculentum* (Forst.f.) Cockayne Bennett 58
 ‘5 Pteris esculenta prodr 154 Derwent’ (Brown, 1810: 154, entry 5-D).
298. *Pteris tremula* R.Br. Bennett 53
 ‘Grose’ (Brown, 1810: 154, entry 4-J).
299. *Pteris tremula* R.Br. Unnumbered but corresponds to Bennett register entry 56
 ‘Pteris tremula prodr 154 Port Jackson’ (Brown, 1810: 154, entry 4-J).
300. *Pteris umbrosa* R.Br. Bennett 51
 ‘Pteris umbrosa First branch of the Grose Pteris’ (Brown, 1810: 154, entry 1-J).
301. *Pyrrosia confluens* (R.Br.) Ching Bennett 9
 ‘Pteroides varia [struck through] Polypodium confluens prodr 146 cfr Plenopiloselloides ad rip Hunters & Patersons Rivers Oct: Nov 1804’ (‘Polypodium confluens’ of Brown, 1810: 146, entry 3-J).
302. *Pyrrosia rupestris* (R.Br.) Ching Bennett 8
 ‘Polypodium rupestre prodr 146 [reverse] Polypodium serpens B & S Forst Prod: Vahl Symb Port Jackson’ (‘Polypodium rupestris’ of Brown, 1810: 146, entry 2-J).
303. *Rumohra adiantiformis* (Forst.f.) Ching Bennett 19
 ‘2 Aspidium coriaceum prodr 148 Polypodium adiantiforme Forst prod Derwent adras montis’ (‘Aspidium coriaceum’ of Brown, 1810: 148, entry 2-D).
304. *Schizaea bifida* Willd. Bennett 113
 Two labels: 1st reads; ‘3 Schizaea furcata [struck through] bifida prodr 162 Port II’; 2nd reads ‘Schizaea furcata Richmond’ (Brown, 1810: 162, entry 3-J. The provenance annotation is J and D; perhaps T and J are meant).
305. *Schizaea bifida* Willd. Unnumbered — Dryander duplicate, see introduction.
 ‘Acrostichum pectinastordes Nova Cambria australis Port Jackson’.
306. *Schizaea dichotoma* (L.) J.Sm. Bennett 114
 ‘Schizaea dichotoma 4 Schizaea aspera scabr cfr S dichotom: prodr 162’ (Brown, 1810: 162, entry 4-T).

307. *Schizaea fistulosa* Labill. Unnumbered
 'Terra Dieman' ('Schizaea fistulosa' of Brown, 1810: 162, entry 2-D).
308. *Schizaea fistulosa* Labill. Unnumbered
 (Syn. 'Microschizaea fistulosa' (Labill.) Reed).
 'Schizaea fistula [. . .]'. Locality probably Tasmania as above (cf. Brown, 1810: 162, entry 2-D).
309. *Schizaea rupestris* R.Br. Bennett 112
 'Schizaea rupestris prodr 162 desc 25 nep [. . .] Port Jackson' (Brown, 1810: 162, entry 1-J).
310. *Sticherus flabellatus* (R.Br.) St. John Bennett 109
 'Port Jackson 6 Gleichenia ['prolifer' struck through] flabellata prodr 161' ('Gleichenia flabellata' of Brown, 1810: 161, entry 6-J).
311. *Sticherus tener* (R.Br.) Ching Bennett 110
 '7 Gleichenia tenera prodr 161 in rup. hum ad rip rivul alpin Mon[tis] Tabul[aris]' ('Gleichenia tenera' of Brown, 1810: 161, entry 7-D).
312. *Todea barbara* (L.) T. Moore Bennett 117
 'Osmunda barbara prodr 163 Port Jackson' (Brown, 1810: 163, entry 1-J).
313. *Vittaria elongata* Sw. Bennett 50
 'Vittaria acostata Broad Sound Peaked West Hill parasit: super Asplen[ium] nidus' (Brown, 1810: 153, entry 1-T).

CYCADOPHYTES

Cycadaceae

314. *Cycas angulata* R.Br. Bennett 3106 (pro parte)
 No original label. According to an annotation by J. R. Maconochie of 18 November 1976, the specimen is probably from Bountiful Island, Gulf of Carpentaria, and the 'T' entry confirms the tropical provenance (Brown, 1810: 348, entry 2-T). In his Diary (Vallance *et al.*, in prep.) Brown does not mention a cycad being collected from Bountiful Island but Good mentions a 'Cycas circinalis' which his editor (Edwards, 1981: 104) identified as *C. media* R.Br. But we believe that *C. angulata* is correct. Bauer painting 159/60, Botany Library, BM (NH), is probably based on this plant.
315. *Cycas media* R.Br. Bennett 3106 (pro parte)
 No original label. According to an annotation by J. R. Maconochie of 18 November 1976, the specimen is probably from Cumberland Islands, Queensland. The 'T' entry (Brown, 1810: 348, entry 1-T) confirms this (cf. Mabberley, 1985: plate 4). Certainly Brown collected a specimen of 'Cycas circinalis' at Calder Island (Cumberland Islands) on 16 October 1802 which could be this specimen. BM (NH) Bauer painting 157/8 is probably based on this plant (Vallance *et al.*, in prep.).

CONIFEROPHYTES

Araucariaceae

316. *Araucaria cunninghamii* Ait. Bennett 3115

'*Araucaria cunninghamii* Port Bowen 1802 RB' (probably the specimen collected 21 August 1802 according to Brown's Diary (Vallance *et al.*, in prep).

Cupressaceae

317. *Callitris gracilis* R. Baker Bennett 3108
(Syn. 'Frenela robusta' A. Cunn.)

Two labels: 1st reads 'Callitris glauca Nob Mount Brown Spencers Gulf 1802 RB'; 2nd reads 'Genus Conifer Inlet XII South C'. Gathered from Mount Brown, 10-11 March 1802 (cf. Vallance *et al.*, in prep.).

318. *Callitris gracilis* R. Baker Bennett 3109

(Syns 'Frenela robusta' A. Cunn., 'Callitris propinqua' R.Br.)
'Callitris propinqua Nob Kangaroo Island 1802 RB'. Gathered March 1802 (cf. Vallance *et al.*, in prep.).

319. *Callitris muelleri* (Parl.) F. Muell. Bennett 3112

(Syn. 'Frenela muelleri' Parl., cf. Garden, 1956: 383).
'Callitris Nova Holland loc incerta'.

320. *Callitris rhomboidea* R.Br. ex A. & L. C. Rich Bennett 3107

(Syn. Holotype of 'Callitris ventenatii' Mirb., Garden, 1956: 386)
'Callitris ventenatii Nob Port Jackson 1804-5'.

321. *Callitris rhomboidea* R.Br. ex A. & L. C. Rich Bennett 3114

(Syn. 'Callitris australis', cf. Garden, 1956: 386).
'Genus Coniferar: adripas saxosus fluvii Cataract River Port Dalrymple Jan 10 1804
[. . .] Callitris australis'.

322. *Callitris tuberculata* R.Br. ex R. T. Baker & H. G. Smith Bennett 3110

(Syn. 'Frenela robusta var. verrucosa', also 'Callitris preissi' Miq.).
Two labels: 1st reads 'Middle Island of Goose Island Bay 1802 RB'; 2nd reads 'Genus Conif Bay II South Coast 1802 Jan^y 12'. Gathered January 1802 from the Archipelago of the Recherche (cf. Willis, 1959: 99; and Vallance *et al.*, in prep.).

323. *Callitris* sp.indet. Bennett 3111

'Port Jackson'.

324. *Callitris columellaris* F. Muell. Bennett 3113

'Nov gen Conifer Sandy Cape Arbor Mediocris cortice ramoso crasso'. Collected 30 July 1802, Vallance *et al.* (in prep.).

Podocarpaceae

325. *Lagarostrobos franklinii* (Hook.f.) C. J. Quinn Bennett 3120

'Huon Pine'. No locality given on original label. This taxon *sensu* Quinn (1982).

326. *Phyllocladus aspleniifolius* (Labill.) Hook.f. Bennett 3119

(Syn. 'Podocarpus asplenifolia' Labill.).
'Derwent [. . .] Podocarpus asplenifolia'.

327. *Podocarpus elatus* R.Br. ex Endl. Bennett 3117
Two labels: 1st reads 'Taxus cfr T elongatum Hunters River'; 2nd reads 'Taxus cfr T elongatum In sylvis prope ripas fluvio Paterson A A Ash Island Insulas que adjacent Cabbage tree swamp & C Desc In mscr N C No95'. Probably gathered 14 October 1804 (cf. Vallance *et al.* in prep.).
328. *Podocarpus lawrencei* Hook.f. Bennett 3116
(*'Podocarpus alpinus'* of de Laubenfels, 1985).
'Taxus emersa No120 desc Misc fl Derwent In Summitate saxosa Montis Tabularis prope fluio: Derwent Apr: Mai 1804'.
329. *Podocarpus spinulosus* (Sm.) R.Br. ex Mirb. Bennett 3118
No original label.

INDEX

Poorly-localized material is unindexed, but material from the **south coast** is given below. This is broadly equivalent to Brown's (1810) annotation 'M':
3, 7-10, 14, 18, 20, 22, 24, 35, 36-7, 42-3, 47, 55, 75, 83, 86, 122, 129, 172, 179, 214, 317-8 and 322.

Material from **Tasmania**, and **Bass Strait**, approximately equivalent to Brown's (1810) 'D' annotation:

2, 4, 5, 11, 17-19, 21, 23, 31-32, 34, 38, 41, 43, 48-51, 55, 59, 62, 65-8, 71-3, 78-9, 87, 89, 90-6, 100, 105-11, 113-15, 117-8, 120-25, 130-35, 137-8, 141, 143-55, 157-8, 160-64, 166-7, 169-71, 175, 189-90, 194, 203-04, 206-11, 230-1, 235-6, 241-42, 247, 252-3, 256, 261, 263-5, 281-2, 286, 288, 292-3, 295, 297, 303, 307-8, 311, 321, 326 and 328.

Material from **New South Wales**, equivalent to Brown's (1810) 'J' annotation:
97-9, 101-04, 126-28, 136, 140, 142, 156, 165, 168, 173-74, 176, 180-82, 184-88, 191-93, 196-202, 205, 212-13, 220, 228-29, 232-34, 237-39, 240, 244-46, 257-60, 262, 266, 270-71, 278-80, 287, 289, 296, 298-302, 304, 309-10, 312, 320, 323 and 327.

Tropical material, equivalent to Brown's (1810) 'T' annotation:
27, 29, 44-6, 80, 82, 84, 177-78, 183, 195, 217-19, 222, 224-25, 243, 248-51, 267, 268-69, 272-77, 283-85, 290-91, 304, 306, 313-16, 324 and 327.

INDEX OF BENNETT NUMBERS vs GROVES & MOORE NUMBERS

There are no Bennett numbers: 8, 33, 38, 40, 70, 84, 99, 156, 159, 161, 188 [=25], 190 [=30], 191 [=31], 192 [=25], 196 [=28], 206 [?=47], 210 [?=44], 244 [?=24], 256, 273 [?=116], 274 [?=155], 280, 299 [=56], 305, 307 and 308. Possibly equivalent Bennett numbers are given in brackets — see text for each such entry. For Groves & Moore numbers marked with an asterisk (*) there is no Bennett number.

Bennett	Groves & Moore	Bennett	Groves & Moore	Bennett	Groves & Moore
1	289	9	301	19	303
2	177	10	283	20	284
3	224	11a-c	288	21a	228
4a	220	12	186	21b	229
4b	221	13	230	22	266
5a	217	14a [=15]	249	23	267
5b	218	14b	250 & 251	24	244*
6b & c	259	16a	265	25	188, 192 & 193*
7	292	17	295	27	194
8	302	18	294	28	196*

Bennett	Groves & Moore	Bennett	Groves & Moore	Bennett	Groves & Moore
29	195*	81	269	131	168
30	190*	82	272	132	173
31	191*	83	271	133	172
33	187	84	238	134	197
35	189	85	239	135	198
36	245	86	231	136	199
37	246	87	232	137	279
38	247	88	233	138	276
39	202	89	234	139	277
40	205	90	235	140	278
41	201	91	242	141	275
42	203	92	241	157	39
43	204	93	240	158	41
44	209 & 210*	94	236	159	43
45	207	95	237	161	44
46	208	96	293	162	45
47?	206*	97	282	163	46
48	211 & 212	98	264	166	3
49	200	99	281	167	5
50	313	100	263	168	6
51	300	101	290	169	7
52	260	102	291	170	10
53	298	103	258	171	9
54	261	104	257	172	4
55	262	105	252	173	2
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57	296	107	255	175	32
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60	222	110	311	179	18
61	223	111	243	181	12, 13 & 14
62	248	112	309	181a	15
63	287	113	304	182	52
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65	184	115?	274*	195	53
66	185	116?	273*	203	16
67	181	117	312	205	1
68	182	118	285	206	68
69	178	119	213	208	20
70	179	120	174	209	22
71	180	121	176	210	42
72	225	122	175	211	2
73	226	123	169	213	17
74	214	124	170	214	21
75	227	125	171	215	48
76	215	126	163	216	47
77	216	127	164	217	37
78	219	128	165	218	27
79	270	129	166	219	24
80	268	130	167	221	25

Bennett	Groves & Moore	Bennett	Groves & Moore	Bennett	Groves & Moore
223	28	284	150	539	100
224	26	285	157	540	116 & 119
225	49	286	160	542	142
226	19	287	153	543	111
227	35	288	151	544	128
228	50	289	152	545	134
229	31	290	144	546	97
230	36	291	147	547	121
231	34	292	146	549	94 & 95
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245	55	502	124	556	112
249	77	504	92	558	137
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252	72	515	107	563	96
253	64	516	118	565	109
254	61	517	130	566	110
257	65	518	139 & 140	567	120
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260	67	520	136	3106	314 & 315
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281	155	536	115	3120	325
282	154	537	113		
283	158	538	117		

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References

- AGARDH, C. A., 1823-28. — *Species Algarum rite cognitae cum synonymis*. Gryphiswaldiae: sumtibus E. Mavritii. 2 vols.
- BEADLE, N. C. W., EVANS, O. D., CAROLIN, R. C., and TINDALE, M. D., 1972. — *Flora of the Sydney Region*. Sydney: A. H. & A. W. Reed.
- BENTHAM, G., and MUELLER, F. VON, 1863-1878. — *Flora Australiensis: A description of the plants of the Australian Territory*. London: Lovell Reeve & Co. 7 vols.
- BIBBY, P., 1951. — *Parmelia australiensis* Cromb. *Vict. Nat.* 67: 186.
- BRITTON, J., 1904. — R. Brown's list of Madeira plants. *J. Bot.*, Lond. 42: 1-8, 39-46, 175-182 and 197-200.
- BROWN, R., 1810. — *Prodromus Florae Novae Hollandiae et Insulae Van-Diemen, exhibens characteres plantarum quas annis 1802-1805 per oras utriusque insulae collegit et descripsit Robertus Brown*; . . . London: Typis Richardi Taylor et Socii. The work, with the *Supplementum Primum* 1830, was reprinted in facsimile 1960 — Weinheim, Codicote and New York: Engelmann, Wheldon & Wesley Ltd and Hafner.
- , 1811. — Some observations on the parts of fructification in mosses; with characters and descriptions of two new genera of that order. *Trans Linn. Soc. Lond.* 10: 312-324.
- , 1826. — On the structure of the female flower of Cycadaceae and Coniferae. In KING, P. P., *Narrative of a survey of the intertropical and western coasts of Australia performed between the years 1818 and 1822*. Vol. 2: 554-565. London: John Murray.
- BURBIDGE, N. T., 1956. — Robert Brown's collecting localities. *Proc. Linn. Soc. N.S.W.* 80: 229-233.
- CLEMENTS, M. A., 1983. — Notes on the content of John Lindley's Orchid herbarium. *Orchadian* 7(10): 241-245.
- CROMBIE, J. M., 1879. — Enumeration of Australian lichens in Herb. Robert Brown (Brit. Mus.) with descriptions of new species. *J. Linn. Soc. Lond. (Bot.)* 17: 390-401.
- DEGELIUS, G., 1974. — The lichen genus *Collema* with special reference to the extra-European species. *Acta Univ. Upsaliensis, Symbol. Bot.* XX. 2.
- DE LAUBENFELS, D. J., 1985. — A taxonomic revision of the genus *Podocarpus*. *Blumea* 30: 251-278.
- EDWARDS, P. I., 1976. — Robert Brown (1773-1858) and the natural history of Matthew Flinders voyage in H.M.S. *Investigator* 1801-1805. *J. Soc. Biblioph. nat. Hist.* 7: 385-407.
- , ed., 1981. — The Journal of Peter Good: Gardener on Matthew Flinders' voyage to Terra Australis 1801-03. *Bull. Br. Mus. nat. Hist. (hist. Ser.)* 9: 1-213.
- ELIN, J. A., JOHNSON, J., and ARMSTRONG, P. M., 1986. — A revision of the lichen genus *Xanthoparmelia* in Australia. *Bull. Br. Mus. nat. Hist. (bot. Ser.)* 15: 163-362.
- FILSON, R. B., 1981. — A revision of the lichen genus *Cladia* Nyl. *J. Hattori bot. Lab.* 49: 1-75.
- FLINDERS, M., 1814. — *A voyage to Terra Australis . . . in the years 1801, 1802 and 1803, in His Majesty's ship the Investigator . . .* London: G. & W. Nicol. 2 vols & Atlas.
- FORBES, H. O., 1885. — *A naturalist's wanderings in the Eastern Archipelago, from 1878 to 1883*. Appendix VI: 497-523. London: Sampson Low.
- GALLOWAY, D. J., 1985. — *Flora of New Zealand Lichens*. Wellington: Government Printer.
- GARDEN, J., 1956. — A revision of the genus *Callitris* Vent. *Contr. N.S.W. Herb.* 2: 363-392.
- GRAY, J. E., 1866. — On *Anadyomene* and *Microrictyon*, with the description of three new genera, discovered by Menzies in the Gulf of Mexico. *J. Bot.*, Lond. 4: 41-51, 65-72 and 291-293.
- GOTTSCHKE, C. M., LINDENBERG, J. B. G., and NEES VON ESENBECK, C. G., 1844-7. — *Synopsis Hepaticarum. Hamburgi: sumtibus Meissnerianis*.
- GROVES, E. W. and MOORE, D. T., 1986. — Preparation of a first listing of the plants collected in Australia by Robert Brown (1773-1859) during the Flinders voyage of 1801-1805. *Newsl. Aust. System. Bot. Soc.* (December 1986): 4-5.
- JOHNSON, L. A. S., 1959. — The families of cycads and the Zamiaceae of Australia. *Proc. Linn. Soc. N.S.W.* 84: 64-117.
- KANTYLAS, G., 1983. — A brief history of lichenology in Tasmania. *Pap. Proc. Roy. Soc. Tasm.* 117: 41-51.
- KRAMER, K. U., and TINDALE, M. D., 1976. — The Lindsacoid ferns of the Old World. VII. Australia and New Zealand. *Telopea* 1: 91-128.
- LINDLEY, J., 1844. — Review of J. D. HOOKER on 'The botany of the Antarctic voyage of H.M.'s discovery ships Erebus and Terror, in the years 1839-1843'. *Gdnrs Chron.* 27: 446.
- MABBERLEY, D. J., 1985. — *Jupiter Botanicus: Robert Brown of the British Museum*. Braunschweig and London: J. Cramer and British Museum (Natural History).

- MURRAY, G., 1904. — The Department of Botany. In *The History of the Collections contained in the Natural History Departments of the British Museum*. Vol. 1. London: British Museum.
- NORST, M. J., (in press). — *Ferdinand Bauer: The Australian natural history drawings*. London: British Museum (Natural History).
- PICHI-SERMOLLI, R. E. G., 1951. — Notes on some Australian ferns. *Webbia* 8: 205-211.
- POWELL, M., and MORLEY, B., 1976. — The Robert Brown material in the National Herbarium, Glasnevin, Dublin. *Contr. Nat. Bot. Gdns. Ireland*, Glasnevin, Number 1.
- PRICE, J. H., 1984. — Bibliographic notes on works concerning the Algae. V: A note on aspects of the *Fuci*. . . (Dawson Turner, 1807-19). *Archiv. nat. Hist.* 11: 431-442.
- QUINN, C. J., 1982. — Taxonomy of *Dacrydium* Sol. ex Lamb. emend. de Laub. (Podocarpaceae). *Aust. J. Bot.* 30: 311-320.
- QUIRK, H., CHAMBERS, T. C., and REGAN, M., 1983. — The fern genus *Cheilanthes* in Australia. *Aust. J. Bot.* 31: 501-553.
- ROURKE, J. P., 1974. — Robert Brown at the Cape of Good Hope. *J. S. Afr. Bot.* 40: 47-60.
- SCOTT, G. A. M., 1985. — Southern Australian Liverworts. *Austr. Flora & Fauna Ser.* no. 2. Canberra: Australian Government Publishing Service.
- , and STONE, I. G., 1976. — *The mosses of southern Australia*. San Francisco: Academic Press.
- STEARN, W. T., 1960a. — *An introduction to Robert Brown's Prodrum Flora Novae Hollandiae*. Weinheim and Codicote: Engelmann and Wheldon & Wesley Ltd.
- , 1960b. — Franz & Ferdinand Bauer, masters of botanical illustration. *Endeavour* 19: 27-35.
- , 1981. — *The Natural History Museum at South Kensington*. London: Heinemann and British Museum (Natural History).
- , and BLUNT, W., 1976. — *The Australian Flower Paintings of Ferdinand Bauer*. London: The Basilisk Press.
- TINDALE, M. D., 1956. — Cyatheaceae of Australia. *Contr. N.S.W. Herb.* 2: 327-61.
- , 1961. — Pteridophyta of south-eastern Australia. Number 211, Aspidiaceae. *Contr. N.S.W. Herb. Flora Ser.* :47-78.
- , 1965. — A monograph of the genus *Lastreopteris* Ching. *Contr. N.S.W. Herb.* 3: 249-3.
- TURNER, D., 1807-1819. — *Fuci; or coloured figures and descriptions of the plants referred by botanists to the genus Fucus*. London: John & Arthur Arch. 4 vols.
- VALLANCE, T. G., and MOORE, D. T., 1982. — Geological aspects of the voyage of H.M.S. *Investigator* in Australian waters, 1801-5. *Bull. Br. Mus. nat. Hist. (hist. Ser.)* 10: 1-43.
- , GROVES, E. W., and MOORE, D. T., eds, (in preparation). — *Nature's Investigator: The diary of Robert Brown in Australia 1801-5*.
- WALKER, F. J., 1985. — The lichen genus *Usnea* subgenus *Neuropogon*. *Bull. Br. Mus. nat. Hist. (bot. Ser.)* 13: 1-130.
- WILLIS, J. H., 1959. — Plants of the Recherche Archipelago, W.A. *Muelleria* 1: 97-101.
- WOMERSLEY, H. B. S., 1967. — A critical survey of the marine algae of southern Australia. *Aust. J. Bot.* 15: 189-270.
- , 1984. — *The marine benthic Flora of South Australia*. Part I. Adelaide: Government Printer.
- , 1987. — *The marine benthic Flora of South Australia*. Part II. Adelaide: Government Printer.
- WOOD, R. D., 1965. — *Monograph of the Characeae*. Weinheim: J. Cramer.
- WOODWARD, B. B., 1904. — Libraries. In *The History of the Collections contained in the Natural History Departments of the British Museum*. Vol. 1. London: British Museum.